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METHODS OF IDENTIFYING OPTIMAL VARIANTS OF PEPTIDE EPITOPES

BACKGROUND OF THE INVENTION

Field of the Invention

[0001] This invention relates to the field of biology. In a particular embodiment, it relates to peptides, polynucleotides, and compositions useful to monitor or elicit an immune response to selected antigens, and methods of identifying such peptides and polynucleotides.

Related Art

- [0002] HLA class I molecules are expressed on the surface of almost all nucleated cells. Following intracellular processing of antigens, epitopes from the antigens are presented as a complex with the HLA class I molecules on the surface of such cells. CTL recognize the peptide-HLA class I complex, which then results in the destruction of the cell bearing the HLA-peptide complex directly by the CTL and/or via the activation of non-destructive mechanisms e.g., the production of interferon, that inhibit viral replication.
- [0003] Human Immunodeficiency Virus. Acquired immunodeficiency syndrome (AIDS) caused by infection with human immunodeficiency virus-1 (HIV-1) represents a major world health problem. Estimates indicate that about 16,000 people worldwide are infected with HIV each day.
- [0004] The development of anti-viral drugs has been a major advancement in reducing viral loads in HIV infected patients. Highly active retroviral therapy (HAART) has been shown to reduce viremia to nearly undetectable levels. However, current drug therapies are not practicable as a long term solution to the HIV epidemic. HAART therapy is severely limited due to poor tolerance for the drugs and the emergence of drug-resistant virus. Moreover, replication competent HIV persists in the lymphoid tissue of patients who have responded to HAART, thus serving as a reservoir of virus. Lastly, current anti-retroviral drug therapies have little impact upon the global epidemic: almost 90% of the world's HIV infected population resides within countries lacking financial resources for these drugs. Thus, a need exists for an efficacious vaccine to both prevent and treat HIV infection.

[0005] Virus-specific, human leukocyte antigen (HLA) class I-restricted cytotoxic T lymphocytes (CTL) are known to play a major role in the prevention and clearance of virus infections in vivo (Oldstone et al., Nature 321:239, 1989; Jamieson et al., J. Virol. 61:3930, 1987; Yap et al, Nature 273:238, 1978; Lukacher et al., J. Exp. Med. 160:814, 1994; McMichael et al., N. Engl. J. Med. 309:13, 1983; Sethi et al., J. Gen. Virol. 64:443, 1983; Watari et al., J. Exp. Med. 165:459, 1987; Yasukawa et al., J. Immunol. 143:2051, 1989; Tigges et al., J. Virol. 66:1622, 1993; Reddenhase et al., J. Virol. 55:263, 1985; Quinnan et al., N. Engl. J. Med. 307:6, 1982).

While immune correlates of protective immunity against HIV infection are not well defined, there is a growing body of evidence that suggests CTL are important in controlling HIV infection. HIV-specific CTL responses can be detected early in infection and the appearance of the responses corresponds to the time in infection at which initial viremia is reduced (Pantaleo et al., Nature 370:463, 1994; Walker et al., Proc. Natl. Acad. Sci. 86:9514, 1989). In addition, HIV replication in infected lymphocytes can be inhibited by incubation with autologous CTL (see, e.g., Tsubota et al., J. Exp. Med. 169:1421, 1989). These data are supported by recent studies that indicate CTL are required for controlling viral replication in a SIV/rhesus animal model (Schmitz et al., Science 283:857, 1999), and additionally supported by studies that demonstrate that CTL exert selective pressure on HIV populations as evidenced by the eventual predominance of viruses with amino acid replacements in those regions of the virus to which CTL responses are directed (see, e.g., Borrow et al., Nature Med. 3:205-211, 1997; Price et al., Proc. Nat. Acad. Sci. 94:12890-1895, 1997; Koenig et al., Nature Med. 1:330-336, 1995; and Haas et al., J. Immunol. 157:4212-4221, 1996).

[0007] Virus-specific T helper lymphocytes are also known to be critical for maintaining effective immunity in chronic viral infections. Historically, HTL responses were viewed as primarily supporting the expansion of specific CTL and B cell populations; however, more recent data indicate that HTL may directly contribute to the control of virus replication. For example, a decline in CD4⁺ T cells and a corresponding loss in HTL function characterize infection with HIV (Lane et al., New Engl. J. Med. 313:79, 1985). Furthermore, studies in HIV infected patients have also shown that there is an inverse relationship between virus-specific HTL responses and viral load, suggesting that HTL play a role in viremia (see, e.g., Rosenberg et al., Science 278:1447, 1997).

[0008] A fundamental challenge in the development of an efficacious HIV vaccine is the heterogeneity observed in HIV. The virus, like some other infectious agents including retroviruses, rapidly mutates during replication resulting in the generation of virus that can escape anti-viral therapy and immune recognition (Borrow et al., Nature Med. 3:205, 1997). In addition, HIV can be classified into a variety of subtypes that exhibit significant sequence divergence (see, e.g., Lukashov et al., AIDS 12:S43, 1998). In view of the heterogeneous nature of HIV, and the

heterogeneous immune response observed with HTV infection, induction of a multi-specific cellular immune response directed simultaneously against multiple HTV epitopes appears to be important for the development of an efficacious vaccine against HTV. There is a need to establish such vaccine embodiments which elicit immune responses of sufficient breadth and vigor to prevent and/or clear HTV infection.

- [0009] Hepatitis B Virus. Chronic infection by hepatitis B virus (HBV) affects at least 5% of the world's population and is a major cause of cirrhosis and hepatocellular carcinoma (Hoofnagle, J., N. Engl. J. Med. 323:337, 1990; Fields, B. and Knipe, D., In: Fields Virology 2:2137, 1990). The World Health Organization lists hepatitis B as a leading cause of death worldwide, close behind chronic pulmonary disease, and more prevalent than AIDS. Chronic HBV infection can range from an asymptomatic carrier state to continuous hepatocellular necrosis and inflammation, and can lead to hepatocellular carcinoma.
- [0010] The immune response to HBV is believed to play an important role in controlling hepatitis B infection. A variety of humoral and cellular responses to different regions of the HBV nucleocapsid core and surface antigens have been identified. T cell mediated immunity, particularly involving class I human leukocyte antigen-restricted cytotoxic T lymphocytes (CTL), is believed to be crucial in combatting established HBV infection.
- [0011] Several studies have emphasized the association between self-limiting acute hepatitis and multispecific CTL responses (Penna, A. et al., J. Exp. Med. 174:1565, 1991; Nayersina, R. et al., J. Immunol. 150:4659, 1993). Spontaneous and interferon-related clearance of chronic HBV infection is also associated with the resurgence of a vigorous CTL response (Guidotti, L. G. et al., Proc. Natl. Acad. Sci. USA 91:3764, 1994). In all such cases the CTL responses are polyclonal, and specific for multiple viral proteins including the HBV envelope, core and polymerase antigens. By contrast, in patients with chronic hepatitis, the CTL activity is usually absent or weak, and antigenically restricted.
- [0012] The crucial role of CTL in resolution of HBV infection has been further underscored by studies using HBV transgenic mice. Adoptive transfer of HBV-specific CTL into mice transgenic for the HBV genome resulted in suppression of virus replication. This effect was primarily mediated by a non-lytic, lymphokine-based mechanism (Guidotti, L. G. et al., *Proc. Natl. Acad. Sci. USA* 91:3764, 1994; Guidotti, L.

G., Guilhot, S., and Chisari, F. V. J. Virol. 68:1265, 1994; Guidotti, L. G. et al., J. Virol. 69:6158, 1995; Gilles, P. N., Fey, G., and Chisari, F. V., J. Virol. 66:3955, 1992).

- [0013] As is the case for HLA class I restricted responses, HLA class II restricted T cell responses are usually detected in patients with acute hepatitis, and are absent or weak in patients with chronic infection (Chisari, F. V. and Ferrari, C., Annu. Rev. Immunol. 13:29, 1995). HLA Class II responses are tied to activation of helper T cells (HTLs) Helper T lymphocytes, which recognize Class II HLA molecules, may directly contribute to the clearance of HBV infection through the secretion of cytokines which suppress viral replication (Franco, A. et al., J. Immunol. 159:2001, 1997). However, their primary role in disease resolution is believed to be mediated by inducing activation and expansion of virus-specific CTL and B cells.
- In view of the heterogeneous immune response observed with HBV infection, induction of a multi-specific cellular immune response directed simultaneously against multiple epitopes appears to be important for the development of an efficacious vaccine against HBV. There is a need to establish vaccine embodiments that elicit immune responses that correspond to responses seen in patients that clear HBV infection. Epitope-based vaccines appear useful.
- [0015]Hepatitis C Virus. Hepatitis C virus (HCV) infection is a global human health problem with approximately 150,000 new reported cases each year in the U.S. alone. HCV is a single stranded RNA virus, and is the etiological agent identified in most cases of non-A, non-B post-transfusion and post-transplant hepatitis, and is a common cause of acute sporadic hepatitis (Choo et al., Science 244:359, 1989; Kuo et al., Science 244:362, 1989; and Alter et al., in: Current Perspective in Hepatology, p. 83, 1989). It is estimated that more than 50% of patients infected with HCV become chronically infected and, of those, 20% develop cirrhosis of the liver within 20 years (Davis et al., New Engl. J. Med. 321:1501, 1989; Alter et al., in: Current Perspective in Hepatology, p. 83, 1989; Alter et al., New Engl. J. Med. 327:1899, 1992; and Dienstag, J. L. Gastroenterology 85:430, 1983). Moreover, the only therapy available for treatment of HCV infection is interferona. Most patients are unresponsive, however, and among the responders, there is a high recurrence rate within 6-12 months of cessation of treatment (Liang et al., J. Med. Virol. 40:69, 1993). Ribaviron, a guanosine analog with a broad spectrum activity against many RNA and DNA viruses, has been shown in clinical trials to be effective against chronic

HCV infection when used in combination with interferon- α (see, e.g., Poynard et al., Lancet 352:1426-1432, 1998; Reichard et al., Lancet 351:83-87, 1998) However, the response rate is still well below 50%.

- Virus-specific, human leukocyte antigen (HLA) class I-restricted cytotoxic T lymphocytes (CTL) are known to play a major role in the prevention and clearance of virus infections in vivo (Oldstone et al., Nature 321:239, 1989; Jamieson et al., J. Virol. 61:3930, 1987; Yap et al, Nature 273:238, 1978; Lukacher et al., J. Exp. Med. 160:814, 1994; McMichael et al., N. Engl. J. Med. 309:13, 1983; Sethi et al., J. Gen. Virol. 64:443, 1983; Watari et al., J. Exp. Med. 165:459, 1987; Yasukawa et al., J. Immunol. 143:2051, 1989; Tigges et al., J. Virol. 66:1622, 1993; Reddenhase et al., J. Virol. 55:263, 1985; Quinnan et al., N. Engl. J. Med. 307:6, 1982).
- [0017] In view of the heterogeneous immune response observed with HCV infection, induction of a multi-specific cellular immune response directed simultaneously against multiple HCV epitopes appears to be important for the development of an efficacious vaccine against HCV. There is a need, however, to establish vaccine embodiments that elicit immune responses that correspond to responses seen in patients that clear HCV infection.
- [0018] Human Papillomavirus. Human papillomavirus (HPV) is a member of the papillomaviridae, a group of small DNA viruses that infect a variety of higher vertebrates. More than 80 types of HPVs have been identified. Of these, more than 30 can infect the genital tract. Some types, generally types 6 and 11, may cause genital warts, which are typically benign and rarely develop into cancer. Other strains of HPV, "cancer-associated", or "high-risk" types, can more frequently lead to the development of cancer. The primary mode of transmission of these strains of HPV is through sexual contact.
- [0019] The main manifestations of the genital warts are cauliflower-like condylomata acuminata that usually involve moist surfaces; keratotic and smooth papular warts, usually on dry surfaces; and subclinical "flat" warts, which are found on any mucosal or cutaneous surface (Handsfield, H., Am. J. Med. 102(5A):16-20, 1997). These warts are typically benign but are a source of inter-individual spread of the virus (Ponten, J. & Guo, Z., Cancer Surv. 32:201-29, 1998). At least three HPV strains associated with genital warts have been identified: type 6a (see, e.g., Hofmann, K.J., et al., Virology 209(2):506-518,

1995), type 6b (see, e.g., Hofmann et al., supra) and type 11 (see, e.g., Dartmann, K. et al., Virology 151(1):124-130, 1986).

[0020] Cancer-associated HPVs have been linked with cancer in both men and women; they include, but are not limited to, HPV-16, HPV-18, HPV-31, HPV-45, HPV-33 and HPV-56. Other HPV strains, including types 6 and 11 as well as others, e.g., HPV-5 and HPV-8, are less frequently associated with cancer. The high risk types are typically associated with the development of cervical carcinoma and premalignant lesions of the cervix in women, but are also associated with similar malignant and premalignant lesions at other anatomic sites within the lower genital or anogenital tract. These lesions include neoplasia of the vagina, vulva, perineum, the penis, and the anus. HPV infection has also been associated with respiratory tract papillomas, and rarely, cancer, as well as abnormal growth or neoplasia in other epithelial tissues. See, e.g. VIROLOGY, 2ND ED, Fields et al., Eds. Raven Press, New York, 1990, Chapters 58 and 59, for a review of HPV association with cancer.

[0021] The HPV genome consists of three functional regions, the early region, the late region, and the "long control region". The early region gene products control viral replication, transcription and cellular transformation. They include the HPV E1 and E2 proteins, which play a role in HPV DNA replication, and the E6 and E7 oncoproteins, which are involved in the control of cellular proliferation. The late region include the genes that encode the structural proteins L1 and L2, which are the major and minor capsid proteins, respectively. The "long control region" contains such sequences as enhancer and promoter regulatory regions.

[0022] HPV expresses different proteins at different stages of the infection, for example early, as well as late, proteins. Even in latent infections, however, early proteins are often expressed and are therefore useful targets for vaccine-based therapies. For example, high-grade dysplasia and cervical squamous cell carcinoma continue to express E6 and E7, which therefore can be targeted to treat disease at both early and late stages of infection.

[0023] Treatment for HPV infection is often unsatisfactory because of persistence of virus after treatment and recurrence of clinically apparent disease is common. The treatment may require frequent visits to clinics and is not directed at elimination of the virus but at clearing warts. Because of persistence of virus after treatment, recurrence of clinically apparent disease is common.

[0024] Thus, a need exists for an efficacious vaccine to both prevent and treat HPV infection and to treat cancer that is associated with HPV infection. Effective HPV vaccines would be a significant advance in the control of sexually transmissable infections and could also protect against clinical disease, particularly cancers such as cervical cancer. (see, e.g., Rowen, P. & Lacey, C., Dermatologic Clinics 16(4):835-838, 1998).

- [0025] Virus-specific, human leukocyte antigen (HLA) class I-restricted cytotoxic T lymphocytes (CTL) are known to play a major role in the prevention and clearance of virus infections in vivo (Oldstone et al., Nature 321:239, 1989; Jamieson et al., J. Virol. 61:3930, 1987; Yap et al, Nature 273:238, 1978; Lukacher et al., J. Exp. Med. 160:814, 1994; McMichael et al., N. Engl. J. Med. 309:13, 1983; Sethi et al., J. Gen. Virol. 64:443, 1983; Watari et al., J. Exp. Med. 165:459, 1987; Yasukawa et al., J. Immunol. 143:2051, 1989; Tigges et al., J. Virol. 66:1622, 1993; Reddenhase et al., J. Virol. 55:263, 1985; Quinnan et al., N. Engl. J. Med. 307:6, 1982).
- Virus-specific T helper lymphocytes are also known to be critical for maintaining effective immunity in chronic viral infections. Historically, HTL responses were viewed as primarily supporting the expansion of specific CTL and B cell populations; however, more recent data indicate that HTL may directly contribute to the control of virus replication. For example, a decline in CD4⁺ T cells and a corresponding loss in HTL function characterize infection with HIV (Lane et al., New Engl. J. Med. 313:79, 1985). Furthermore, studies in HIV infected patients have also shown that there is an inverse relationship between virus-specific HTL responses and viral load, suggesting that HTL plays a role in viremia (see, e.g., Rosenberg et al., Science 278:1447, 1997).
- [0027] The development of vaccines with prophylactic and therapeutic efficacy against HPV is ongoing. Early vaccine development was hampered by the inability to culture HPV. With the introduction of cloning techniques and protein expression, however, some attempts have been made to stimulate humoral and CTL response to HPV (See, e.g., Rowen, P. & Lacey, C., Dermatologic Clinics 16(4):835-838 (1998)). Studies to date, however, have been inconclusive.
- [0028] Activation of T helper cells and cytotoxic lymphocytes (CTLs) in the development of vaccines has also been analyzed. Lehtinen, M., et al. for instance, has shown that some peptides from the E2 protein of HPV type 16 activate T helper cells and CTLs (Biochem. Biophys. Res. Commun. 209(2):541-6 (1995). Similarly, Tarpey et al, has shown that some peptides from HPV type 11 E7 protein can stimulate human HPV-specific CTLs in

vitro (Immunology 81:222-227 (1994)) and Borysiewicz et al. have reported a recombinant vaccinia virus expressing HPV 16 and HPV 17 E6 and E7 that stimulated CTL responses in at least one patient (Lancet 347:1347-1357, 1996).

- [0029] Plasmodium falciparum and Malaria. Malaria, which is caused by infection with the parasite Plasmodium falciparum (PF), represents a major world health problem. Approximately 500 million people in the world are at risk from the disease, with approximately 200 million people actually harboring the parasites. An estimated 1 to 2 million deaths occur each year due to malaria. (Miller et al., Science 234:1349, 1986).
- [0030] Fatal outcomes are not confined to first infections, and constant exposure is apparently a prerequisite for maintaining immunity. Naturally acquired sterile immunity is rare, if it exists at all. Accordingly, major efforts to develop an efficacious malaria vaccine have been undertaken.
- [0031] Human volunteers injected with irradiated PF sporozoites are resistant to subsequent sporozoite challenges, which demonstrates that development of a malaria vaccine is indeed immunologically feasible. Furthermore, these immune individuals developed a vigorous response, including antibodies, and cytotoxic T lymphocyte (CTL) and helper T lymphocyte (HTL) components, directed against multiple antigens. Reproducing the breadth and multiplicity of this response in a vaccine, however, is a task of large proportions. The epitope approach, as described herein, may represent a solution to this challenge, in that it allows the incorporation of various antibody, CTL and HTL epitopes, from various proteins, in a single vaccine composition.
- [0032] Anti-sporozoite antibodies are by themselves, in general, not completely efficacious in clearing the infection (Egan et al., Science 236:453, 1987). However, high concentrations of antibodies directed against the repeated region of the major B cell antigen of the sporozoite/circumsporozoite protein (CSP) have been shown to prevent liver cell infection in certain experimental models (Egan et al., Science 236:453, 1987; Potocnjak, P. et al., Science 207:71, 1980). The present inventors have shown that constructs encompassing CSP-repeat B cell epitopes and the optimized helper epitope PADRE™ (San Diego, CA) are highly immunogenic, and can protect in vitro against sporozoite invasion in both mouse and human liver cells, and protect mice in vivo against live sporozoite challenge (Franke et al., Vaccine 17:1201-1205, 1999)

[0033] PF-specific CD4⁺ T cells also have a role in malarial immunity beyond providing help for B cell and CTL responses. Experiments by Renia et al. (Renia, et al., Proc. Natl. Acad. Sci. USA 88:7963, 1991) demonstrated that HTLs directed against the Plasmodium yoelli CS protein could in fact adoptivley transfer protection against malaria.

[0034] Considerable data implicate CTLs in protection against pre-erythrocytic-stage malaria. CD8⁺ CTLs can eliminate *Plasmodium berghei*- or *Plasmodium yoelii*-infected mouse hepatocytes from in vitro culture in a major histocompatibility complex (MHC)-restricted and antigen-restricted manner (Hoffman *et al.*, *Science* 244:1078-1081, 1989; Weiss *et al.*, J. *Exp. Med.* 171:763-773, 1990). Further, it has also been shown that the immunity that developed in mice vaccinated with irradiated sporozoites is also dependent upon the present of CD8+ T cells. These T cells accumulate in inflammatory liver infiltrates subsequent to challenge. Passive transfer of circumsporozoite (CSP)-specific CTL clones as long as three hours after inoculation of sporozoites (*i.e.*, after the parasites have left the bloodstream and infected liver cells) were capable of protecting animals against infection (Romero *et al.*, *Nature* 341:323, 1989).

[0035] It is notable that CTL-restricted responses directed against a single antigen are insufficient to protect mice with different MHC alleles, and a combination of multiple antigens was required even to protect mice from the most common laboratory strains of *Plasmodium*. These data indicate that a combination of epitopes form several antigens is necessary to elicit a protective CTL response.

Indirect evidence that CTLs are important in protective immunity against Pf in humans has also accumulated. It has been reported that cytotoxic CD8⁺ T cells can be identified in humans immunized with PF sporozoites (Moreno, et al., Int. Immunol. 3:997, 1991). Further, humans immunized with irradiated sporozoites or naturally exposed to malaria can generate a CTL response to the pre-erythrocytic-stage antigens, CSP, sporozoite surface protein 2 (SSP2), liver-stage antigen-1 (LSA-1), and exported protein-1 (Exp-1) (see, e.g. Malik et al., Proc. Natl. Acad. Sci. USA 88, 3300-3304, 1991; Doolan et al., Int. Immunol. 3:511-516, 1991; Hill et al., Nature 360:434-439, 1992). Additionally, there is evidence that the polymorphism within the CSP may be the result of selection by CTLs of parasites that express variant forms (MCutchan and Water, Immunol. Lett. 25:23-26, 1990). This is based on the observation that the variation is nonsynonymous at the nucleotide level, thereby indicating selective pressure at the protein level. The polymorphism primarily maps to identified CTL and T helper epitopes (Doolan et al., Int.

Immunol. 5:27-46, 1993); and CTL responses to some of the parasite variants do not cross-react (Hill et al., supra). Finally, the MHC class I human leukocyte antigen (HLA)-Bw53 has been associated with resistance to severe malaria in The Gambia, and CTLs to a conserved epitope restricted by the HLA-Bw53 allele have been identified on P. falciparum LSA-1 (Hill et al., Nature 352:595-600, 1991; Hill et al., Nature 340:434-439, 1992). Since HLA-Bw53 is found in 15%-40% of the population of sub-Saharan Africa but in less than 1% of Caucasians and Asians, these data suggest evolutionary selection on the basis of protection against severe malaria.

- [0037] Thus, antibody, and both HLA class I and class II restricted responses directed against multiple sporozoite antigens appear to be involved in generating protective immunity to malaria. Furthermore, several important antigenic epitopes against which humoral and cellular immunity is focused have already been exactly delineated.
- [0038] In view of the heterogeneous immune response observed with PF infection, induction of a multi-specific cellular immune response directed simultaneously against multiple PF epitopes appears to be important for the development of an efficacious vaccine against PF. There is a need, however, to establish vaccine embodiments that elicit immune responses that correspond to responses seen in patients that clear PF infection.
- [0039] Epitope-Based Vaccines. The use of epitope-based vaccines has several advantages over current vaccines. The epitopes for inclusion in such a vaccine are to be selected from conserved regions of viral or tumor-associated antigens, in order to reduce the likelihood of escape mutants. The advantage of an epitope-based approach over the use of whole antigens is that there is evidence that the immune response to whole antigens is directed largely toward variable regions of the antigen, allowing for immune escape due to mutations. Furthermore, immunosuppressive epitopes that may be present in whole antigens can be avoided with the use of epitope-based vaccines.
- [0040] Additionally, with an epitope-based vaccine approach, there is an ability to combine selected epitopes (CTL and HTL) and additionally to modify the composition of the epitopes, achieving, for example, enhanced immunogenicity. Accordingly, the immune response can be modulated, as appropriate, for the target disease. Similar engineering of the response is not possible with traditional approaches.

[0041] Another major benefit of epitope-based immune-stimulating vaccines is their safety. The possible pathological side effects caused by infectious agents or whole protein antigens, which might have their own intrinsic biological activity, is eliminated.

[0042] An epitope-based vaccine also provides the ability to direct and focus an immune response to multiple selected antigens from the same pathogen. Thus, patient-by-patient variability in the immune response to a particular pathogen may be alleviated by inclusion of epitopes from multiple antigens from that pathogen in a vaccine composition. A "pathogen" may be an infectious agent or a tumor associated molecule.

[0043] One of the most formidable obstacles to the development of broadly efficacious epitope-based immunotherapeutics has been the extreme polymorphism of HLA molecules. In the past, effective non-genetically biased coverage of a population has been a task of considerable complexity; such coverage has required that epitopes be used specific for HLA molecules corresponding to each individual HLA allele. Therefore, impractically large numbers of epitopes would been required in order to cover ethnically diverse populations. Recently, methods have been developed that allow the identification of epitopes that bind multiple HLA molecules. Therefore, epitope-based vaccines can be designed that contain epitopes which, either individually or in combination, bind a greater number of HLA molecules. The resulting epitope-based vaccines have a greater breadth of population coverage across one or more continents and even worldwide.

[0044] Variation in Epitopes of Infectious Agents. A challenge in the development of effective vaccines against infectious agents such as hepatitis B virus (HBV) (47, 60) hepatitis C virus (HCV) (61-63), human papilloma virus (HPV) (64, 65) Plasmodium falciparum (66), and human immunodeficiency virus (HIV-1) is the protein sequence variation associated with different isolates. This variation is the result of gene sequence mutations. When such mutations occur in regions encoding epitopes recognized by cytotoxic T-lymphocytes (CTL), they provide a mechanism for escape of the agent from immune system control.

[0045] HIV-1 represents an infectious agent with an especially high frequency of sequence variation. The sequence variation associated with HIV-1 proteins from related isolates, members of the same clades or types, as well as unrelated isolates, is well documented (1). Viral escape from CTL induced as the result of natural infection or vaccines was documented in nonhuman primate models where the mechanism behind this

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escape was mutation of the primary anchor residues in dominant CTL epitopes (5-9). Viral escape from HIV-specific CTL has also been strongly implied by data obtained from HIV-1 infected individuals whose disease status change, including the transition from acute to chronic infection (10, 11), loss of stable control of viral replication and subsequent progression to AIDS (4, 12) or mother-to-child transmission (13). Thus, HIV-1 genetic and protein sequence variation represent a significant challenge to immune system-based control of viral replication, both within infected individuals and within populations.

- [0046] While the public health need for a vaccine against HIV-1 is well recognized and accepted, the genetic variation of HIV-1 isolates represents a highly significant obstacle (1, 14-16). Several strategies have been proposed, some of which include:
 - (1) Designing vaccines on HIV-1 types prevalent within small, well defined populations or geographical regions, such as individual countries or regions, and producing multiple different vaccines for exclusive use within these countries or regions (16).
 - (2) Use of HIV-1 ancestral or consensus sequences based on HIV types present in larger target populations, such as groups of neighboring countries or continents (15, 17-19).
 - (3) Incorporation of viral gene products obtained from multiple different virus isolates, representing diversely different types or clades, into a single 'multi-valent' vaccine.
- Related vaccine design concepts that incorporate many of the advantages associated with the approaches described above are the use of highly conserved regions or epitopes derived from these regions as the basis of the vaccine. The logic behind this approach is that conserved regions of the viral genome are those that have been maintained through the evolution of HIV-1 because changes impact gene product function and general viral fitness. This theory is consistent with analyses of HIV-1 protein sequence data which demonstrated that CTL epitopes are concentrated in conserved regions and that regions devoid of CTL epitopes are the most variable (20). Additional support comes from published reports describing CTL responses, induced as the result of

natural infection or vaccination, that recognize viral proteins or epitopes common to viral isolates from diverse types or clades (21-26). Broad function CTL responses are also known to be correlated with slower progression to AIDS, at least for certain carefully studied populations (27, 28). Despite these reports and the clustering of CTL epitopes in conserved regions of HIV-1 gene products, amino acid sequence variation of analogous regions and epitopes from different viral isolates, both within the same type or clade and from different types, remains significant. There are currently no rules guiding the selection of conserved regions of CTL epitopes for use in vaccines other than the use of amino acid sequence identity (29).

A clear understanding of how CTL recognize pathogen infected cells has emerged [0048] over the past decade. It is now well established that small fragments of pathogen-derived proteins are generated, defined as peptide epitopes generally 8-11 amino acids in length, which bind to HLA-A, -B, or -C (human Class I Major Histocompatability Molecules) molecules expressed on the cell surface. Sequencing of naturally processed peptides bound to HLA molecules provided a means to identify the amino acid residues required for allele-specific epitope-peptide binding (30-32). Data obtained from X-ray crystallographic analysis of HLA-epitope peptide complexes, allowed for the identification and structural characterization of 'binding pockets' within the peptide binding cleft of HLA molecules. More refined epitope anchor motif definitions were then developed using data obtained from in vitro peptide-MHC binding assays. It is now well known that the main anchor residues typically occur at position 2 and the carboxyl terminus of peptides 8-11 amino acids in length, thus positions 8, 9, 10 or 11 (33-40). The definition of epitope peptide binding anchor motifs is the key to most, if not all, epitope prediction methods.

Initial CTL epitope identification methods were developed using common HLA alleles, such as HLA-A2.1. Motifs defined using different HLA molecules were found to be similar and this lead to the definition of HLA supertype families (41). The biological effect of this supertype relationship was first demonstrated for HIV-1 epitopes in a study where the HLA-A3 and -A11 epitope peptide binding patterns repertoires were demonstrated to be overlapping, not only with each other but also with HLA-A31, -A33 and -A*6801 (42). This binding specificity was defined as the HLA-A3 supertype. A significant overlap in peptide binding patterns was also demonstrated amongst several serologically distant HLA-B alleles (43, 44), and multiple HLA-A2 alleles (45, 46),

resulting in the definition of the HLA-B7 and HLA-A2 supertype families. Recognition of epitopes by CTL in a supertype manner has since been demonstrated to occur naturally in infectious diseases and cancer (47-53).

[0050] While only two positions within CTL epitopes are typically characterized as the primary binding anchor positions, the amino acids that can serve as the anchor residues are more variable. The preferred and tolerated amino acids that can serve as anchor residues for the HLA-A2, -A3 and -B7 supertype families of epitopes are listed in Table 1. It is possible for analogous HIV-1 epitope peptides derived from different isolates, which differ with respect to the amino acids used as anchor residues, to bind to HLA molecules similarly. This type of variation can be as conserved since it is likely that CTL produced against one epitope would recognize the related epitope. Thus, variation limited to changes in anchor residues that result in sufficient epitope peptide binding to HLA molecules does not result in immune escape from CTL. Epitopes that contain this type of variation can be identified using the appropriately designed motif search algorithms.

The TCR of CTL has been reported to be somewhat flexible or promiscuous with respect to recognition of epitope peptides bound to HLA molecules. For HIV-1, this flexibility was demonstrated as CTL recognition of related, but slightly variable, epitopes by single clones of CTL produced following natural infection (54, 55). Similar flexibility of CTL epitope recognition was demonstrated using rhesus macaques and natural infection with SIV or immunization (56, 57). This observation is not unique to HIV-1 and SIV but rather the TCR appears to have evolved to allow promiscuous recognition of peptide epitope bound to MHC molecules (58).

[0052] Selective replacement of certain amino acids in CTL epitope peptides, amino acids thought to represent TCR contact points, is not only tolerated but can increase the recognition of the epitopes by CTL clones (59). The types of amino acid substitutions that can be incorporated, typically amino acids that are similar in chemical properties are best tolerated, and their positions, independent of primary anchor positions, within a selected number of CTL epitopes from tumor associated antigens were also defined.

[0053] For HTV-1 and other infectious agents, reproducible methods for predicting the CTL recognition of related variant epitopes that occur amongst isolates have not been developed. Nor have methods for identifying CTL epitopes that are most likely to induce broadly functional responses when used in vaccine. Thus, there exists a need to develop

such methods to overcome the challenge associated with protein sequence variation in HIV and other infectious agents.

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SUMMARY OF THE INVENTION

- [0054] The present invention is directed to methods for selecting a variant of a peptide epitope which induces a CTL response against another variant(s) of the peptide epitope, by determining whether the variant comprises only conserved residues, as defined herein, at non-anchor positions in comparison to the other variant(s).
- In some embodiments, antigen sequences from a population of an infectious agent, said antigens comprising variants of a peptide epitope, are optionally aligned (manually or by computer) along their length, preferably their full length. Variant(s) of a peptide epitope (preferably naturally occurring variants), each 8-11 amino acids in length and comprising the same MHC class I supermotif or motif, are identified manually or with the aid of a computer. In some embodiments, a variant is optionally chosen which comprises preferred anchor residues of said motif and/or which occurs with high frequency within the population of variants. In other embodiments, a variant is randomly chosen. The randomly or otherwise chosen variant is compared to from one to all the remaining variant(s) to determine whether it comprises only conserved residues in the non-anchor positions relative to from one to all the remaining variant(s).
- [0056] The present invention is also directed to variants identified by the methods above; peptides comprising such variants; nucleic acids encoding such variants and peptides; cells comprising such variants, and/or peptides, and/or nucleic acids; compositions comprising such variants, and/or peptides, and/or nucleic acids, and/or cells; as well as therapeutic and diagnostic methods for using such variants, peptides, nucleic acids, cells, and compositions.

BRIEF DESCRIPTION OF THE DRAWINGS/FIGURES

- [0057] FIGS. 1A-1E. Recognition of variant peptides by CTL generated against a single epitope. Variant peptides were identified from 167 HIV strains for 5 HIV epitopes, 3 HLA-A2 restricted (Env 134, A, Gag 386, B, and Vpr 62, C) and 2 HLA-A11 restricted (Pol 98, D, and Env 47, E). These are listed according to their relationship to a previously determined parent (P) into single anchor substitutions (A), single non-anchor substitutions (NA) or multiple substitutions (M). Binding of each variant peptide is also shown. The number of viral sequences containing each variant peptide is shown in the column labeled # Isolates, and is reported for the total sequences, Clade B sequences (B), and Clade C sequences (C). Finally, the ability of CTL primed against the parent peptide to recognize the variant peptides is shown in the bar graphs.
- [0058] FIGS. 2A-2C. Characterization of the peptide-specific T cell lines. A. FACS analysis of the TCRs expressed by peptide -stimulated cells after 0, 1, and 5 peptide stimulations, using a panel of commercially available mAb for mouse TCR 2-14. B-C. Peptide affinity. Parent and variant peptides were titrated against CTL that had been stimulated 5 times with the parent peptide.
- [0059] FIGS. 2A-2B. Recognition of a panel of variant peptides by PBL from an HIV-infected individual.
- [0060] FIG 4. Prediction of immunological conservation. Gag 271 variants and their binding are shown, along with the number of isolates that express each variant. Immunological recognition was predicted for each variant based on two different choices in the immunizing peptide. On the right, the immunogenicity for each variant is shown.

DETAILED DESCRIPTION OF THE INVENTION

Definitions

- [0061] The invention can be better understood with reference to the following definitions:
- [0062] An "antigen" refers to a polypeptide encoded by the genome of an infectious agent, or other another source, but preferably an infectious agent in the present invention.

Examples of HIV antigens include Env, Gag, Nef, Pol, Tat, Rev, Vif, Vpr, Vpu, p17, p24, p2, p7, p1, p6, Protease, RT, Integrase, and gp160 (preferably Env, Gag, Nef, Pol, Tat, Rev, Vif, Vpr, Vpu). Examples of HBV antigens include Core, Env, and Pol. Examples of HCV antigens include Core, E1, E2, Ns1, Ns2, Ns3, Ns4, and Ns5. Examples of HPV antigens include E1, E2, E3, E4, E5, E6, E7, L1, and L2. Examples of *Plasmodium falciparum* antigens include CSP, SSP2, Exp1, and LSA1.

Introughout this disclosure, "binding data" results are often expressed in terms of "IC₅₀'s." IC₅₀ is the concentration of peptide in a binding assay at which 50% inhibition of binding of a reference peptide is observed. Given the conditions in which the assays are run (*i.e.*, limiting HLA proteins and labeled peptide concentrations), these values approximate K_D values. Assays for determining binding are described in detail, *e.g.*, in PCT publications WO 94/20127 and WO 94/03205, and other publications such Sidney *et al.*, Current Protocols in Immunology 18.3.1 (1998); Sidney, *et al.*, J. Immunol. 154:247 (1995); and Sette, *et al.*, Mol. Immunol. 31:813 (1994). It should be noted that IC₅₀ values can change, often dramatically, if the assay conditions are varied, and depending on the particular reagents used (*e.g.*, HLA preparation, *etc.*). For example, excessive concentrations of HLA molecules will increase the apparent measured IC₅₀ of a given ligand.

Alternatively, binding is expressed relative to a reference peptide. Although as a particular assay becomes more, or less, sensitive, the IC₅₀'s of the peptides tested may change somewhat, the binding relative to the reference peptide will not significantly change. For example, in an assay run under conditions such that the IC₅₀ of the reference peptide increases 10-fold, the IC₅₀ values of the test peptides will also shift approximately 10-fold. Therefore, to avoid ambiguities, the assessment of whether a peptide is a good (i.e. high), intermediate, weak, or negative binder is generally based on its IC₅₀, relative to the IC₅₀ of a standard peptide. The Tables included in this application present binding data in a preferred biologically relevant form of IC₅₀ nM.

Binding may also be determined using other assay systems including those using: live cells (e.g., Ceppellini et al., Nature 339:392 (1989); Christnick et al., Nature 352:67 (1991); Busch et al., Int. Immunol. 2:443 (1990); Hill et al., J. Immunol. 147:189 (1991); del Guercio et al., J. Immunol. 154:685 (1995)), cell free systems using detergent lysates (e.g., Cerundolo et al., J. Immunol. 21:2069 (1991)), immobilized purified MHC (e.g., Hill et al., J. Immunol. 152, 2890 (1994); Marshall et al., J. Immunol. 152:4946 (1994)), ELISA systems (e.g., Reay et al., EMBO J. 11:2829 (1992)), surface plasmon resonance (e.g., Khilko et al., J. Biol. Chem. 268:15425 (1993)); high flux soluble phase assays (Hammer et al., J. Exp. Med. 180:2353 (1994)), and measurement of class I MHC stabilization or assembly (e.g., Ljunggren et al., Nature 346:476 (1990);

Schumacher et al., Cell 62:563 (1990); Townsend et al., Cell 62:285 (1990); Parker et al., J. Immunol. 149:1896 (1992)).

- [0066] As used herein, "high affinity" with respect to HLA class I molecules is defined as binding with an IC₅₀ or K_D value, of 50 nM or less, "intermediate affinity" is binding with an IC₅₀ or K_D value of between 50 and about 500 nM, weak affinity is binding with an IC₅₀ or K_D value of between about 500 and about 5000 nM. "High affinity" with repect to binding to HLA class II molecules is defined as binding with an IC₅₀ or K_D value of 100 nM or less; "intermediate affinity" is binding with an IC₅₀ or K_D value of between about 100 and about 1000 nM.
- [0067] A "computer" or "computer system" generally includes: a processor and related computer programs; at least one information storage/retrieval apparatus such as a hard drive, a disk drive or a tape drive; at least one input apparatus such as a keyboard, a mouse, a touch screen, or a microphone; and display structure, such as a screen or a printer. Additionally, the computer may include a communication channel in communication with a network. Such a computer may include more or less than what is listed above.
- [0068] "Cross-reactive binding" indicates that a peptide is bound by more than one HLA molecule; a synonym is degenerate binding.
- [0069] A "cryptic epitope" elicits a response by immunization with an isolated peptide, but the response is not cross-reactive *in vitro* when intact whole protein, which comprises the epitope, is used as an antigen.
- [0070] The term "derived" when used to discuss an epitope is a synonym for "prepared." A derived epitope can be isolated from a natural source, or it can be synthesized in accordance with standard protocols in the art. Synthetic epitopes can comprise artificial amino acids "amino acid mimetics," such as D isomers of natural occurring L amino acids or non-natural amino acids such as cyclohexylalanine. A derived/prepared epitope can be an analog of a native epitope.
- [0071] A "diluent" includes sterile liquids, such as water and oils, including those of petroleum, animal, vegetable or synthetic origin, such as peanut oil, soybean oil, mineral oil, sesame oil and the like. Water is a preferred diluent for pharmaceutical compositions. Saline solutions and aqueous dextrose and glycerol solutions can also be employed as diluents, particularly for injectable solutions.
- [0072] A "dominant epitope" is an epitope that induces an immune response upon immunization with a whole native antigen (see, e.g., Sercarz, et al., Annu. Rev. Immunol. 11:729-766, 1993). Such a response is cross-reactive in vitro with an isolated peptide epitope.
- [0073] An "epitope" is the collective features of a molecule, such as primary, secondary and tertiary peptide structure, and charge, that together form a site recognized by an immunoglobulin, T cell receptor or HLA molecule. Alternatively, an epitope can be defined as a set of amino acid residues which is involved in recognition by a particular immunoglobulin, or in the context of T

cells, those residues necessary for recognition by T cell receptor proteins and/or Major Histocompatibility Complex (MHC) receptors. Epitopes are present in nature, and can be isolated, purified or otherwise prepared/derived by humans. For example, epitopes can be prepared by isolation from a natural source, or they can be synthesized in accordance with standard protocols in the art. Synthetic epitopes can comprise artificial amino acids, "amino acid mimetics," such as D isomers of naturally-occurring L amino acids or non-naturally-occurring amino acids such as cyclohexylalanine. Throughout this disclosure, epitopes may be referred to in some cases as peptides. The variants of the invention are set forth in Tables 6-9 and Figures 1A-4.

[0074]

It is to be appreciated that proteins or peptides that comprise a variant of the invention as well as additional amino acid(s) are still within the bounds of the invention. In certain embodiments, the peptide comprises a fragment of an antigen. A "fragment of an antigen" or "antigenic fragment" or simply "fragment" is a portion of an antigen which has 100% identity with a wild type antigen or naturally-ocurring variant thereof. The fragment may or may not comprise an epitope of the invention. The fragment may be less than or equal to 600 amino acids, less than or equal to 500 amino acids, less than or equal to 400 amino acids, less than or equal to 250 amino acids, less than or equal to 100 amino acids, less than or equal to 85 amino acids, less than or equal to 75 amino acids, less than or equal to 65 amino acids, or less than or equal to 50 amino acids in length. In certain embodiments, a fragment is e.g., less than 101 or less than 51 amino acids in length, in any increment down to 5 amino acids in length. For example, the fragment may be 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, or 100 amino acids in length.

[0075]

In certain embodiments, there is a limitation on the length of a peptide of the invention. The embodiment that is length-limited occurs when the protein/peptide comprising an epitope of the invention comprises a region (i.e., a contiguous series of amino acids) having 100% identity with a native sequence. In order to avoid the definition of epitope from reading, e.g., on whole natural molecules, there is a limitation on the length of any region that has 100% identity with a native peptide sequence. Thus, for a peptide comprising an epitope of the invention and a region with 100% identity with a native peptide sequence, the region with 100% identity to a native sequence generally has a length of: less than or equal to 600 amino acids, often less than or equal to 500 amino acids, often less than or equal to 400 amino acids, often less than or equal to 250 amino acids, often less than or equal to 100 amino acids, often less than or equal to 85 amino acids, often less than or equal to 75 amino acids, often less than or equal to 65 amino acids, and often less than or equal to 50 amino acids. In certain embodiments, an "epitope" of the invention

is comprised by a peptide having a region with less than 51 amino acids that has 100% identity to a native peptide sequence, in any increment down to 5 amino acids.

- Accordingly, peptide or protein sequences longer than 600 amino acids are within the scope of the invention, so long as they do not comprise any contiguous sequence of more than 600 amino acids that have 100% identity with a native peptide sequence. For any peptide that has five contiguous residues or less that correspond to a native sequence, there is no limitation on the maximal length of that peptide in order to fall within the scope of the invention. It is presently preferred that a peptide of the invention (e.g., a peptide comprising an epitope of the invention) be less than 600 residues long in any increment down to eight amino acid residues.
- [0077] A peptide epitope occurring with "high frequency" is one that occurs in at least 30%, at least 40%, at least 50%, at least 60%, at least 70%, at least 80%, or at least 90% of the infectious agents in a population. A "high frequency" peptide epitope is one of the more common in a population, preferably the first most common, second most common, third most common, or fourth most common in a population of variant peptide epitopes.
- [0078] "Human Leukocyte Antigen" or "HLA" is a human class I or class II Major Histocompatibility Complex (MHC) protein (see, e.g., Stites, et al., IMMUNOLOGY, 8TH ED., Lange Publishing, Los Altos, CA (1994).
- [0079] An "HLA supertype or HLA family", as used herein, describes sets of HLA molecules grouped on the basis of shared peptide-binding specificities. HLA class I molecules that share somewhat similar binding affinity for peptides bearing certain amino acid motifs are grouped into such HLA supertypes. The terms HLA superfamily, HLA supertype family, HLA family, and HLA xx-like molecules (where "xx" denotes a particular HLA type), are synonyms. See Tables 1-4.
- As used herein, "high affinity" with respect to HLA class I molecules is defined as binding with an IC₅₀, or K_D value, of 50 nM or less; "intermediate affinity" is binding with an IC₅₀ or K_D value of between about 50 and about 500 nM; "weak affinity" is binding with an IC₅₀ or K_D value between about 500 and about 5000 nM. "High affinity" with respect to binding to HLA class II molecules is defined as binding with an IC₅₀ or K_D value of 100 nM or less; "intermediate affinity" is binding with an IC₅₀ or K_D value of between about 1000 nM. See "binding data."
- [0081] An "IC₅₀" is the concentration of peptide in a binding assay at which 50% inhibition of binding of a reference peptide is observed. Given the conditions in which the assays are run (i.e., limiting HLA proteins and labeled peptide concentrations), these values approximate K_D values. See "binding data."
- [0082] The terms "identical" or percent "identity," in the context of two or more peptide sequences or antigen fragments, refer to two or more sequences or subsequences that are the same

or have a specified percentage of amino acid residues that are the same, when compared and aligned for maximum correspondence over a comparison window, as measured using a sequence comparison algorithm or by manual alignment and visual inspection.

[0083] An "immunogenic" peptide or an "immunogenic" epitope or "peptide epitope" is a peptide that comprises an allele-specific motif or supermotif such that the peptide will bind an HLA molecule and induce a CTL and/or HTL response. Thus, immunogenic peptides of the invention are capable of binding to an appropriate HLA molecule and thereafter inducing a cytotoxic T lymphocyte (CTL) response, or a helper T lymphocyte (HTL) response, to the peptide.

[0084] An "infectious agent" refers to a disease-causing microorganism, including viruses, bacteria, fungi, and protozoa against which a cellular immune response, preferably a CTL response, plays a role in acquired immunity. Examples of infectious agents include viruses such as human immunodeficiency virus (HIV), hepatitis B virus (HBV), hepatitis C virus (HCV), human papillomma virus (HPV), Influenza virus, Dengue virus, Epstein-Barr virus, bacteria such as Mycobacterium tuberculosis and Chlamydia, fungi such as Candida albicans, Cryptococcus neoformans, Coccidoides spp., Histoplasma spp, and Aspergillus fumigatis, protozoa such as Plasmodium spp., including P. falciparum, Trypanosoma spp., Schistosoma spp., Leishmania spp and the like. Preferred infectious agents include HIV, HBV, HCV, HPV, Epstein-Barr virus, Plasmodium falciparum, Influenza virus and Dengue virus.

[0085] The phrases "isolated" or "biologically pure" refer to material which is substantially or essentially free from components which normally accompany the material as it is found in its native state. Thus, isolated peptides in accordance with the invention preferably do not contain materials normally associated with the peptides in their in situ environment. An "isolated" epitope refers to an epitope that does not include the whole sequence of the antigen or polypeptide from which the epitope was derived. Typically the "isolated" epitope does not have attached thereto additional amino acids that result in a sequence that has 100% identity with a native sequence. The native sequence can be a sequence such as a tumor-associated antigen from which the epitope is derived. Thus, the term "isolated" means that the material is removed from its original environment (e.g., the natural environment if it is naturally occurring). For example, a naturallyoccurring polynucleotide or peptide present in a living animal is not isolated, but the same polynucleotide or peptide, separated from some or all of the coexisting materials in the natural system, is isolated. Such a polynucleotide could be part of a vector, and/or such a polynucleotide or peptide could be part of a composition, and still be "isolated" in that such vector or composition is not part of its natural environment. Isolated RNA molecules include in vivo or in vitro RNA

transcripts of the DNA molecules of the present invention, and further include such molecules produced synthetically.

[0086] "Major Histocompatibility Complex" or "MHC" is a cluster of genes that plays a role in control of the cellular interactions responsible for physiologic immune responses. In humans, the MHC complex is also known as the human leukocyte antigen (HLA) complex. For a detailed description of the MHC and HLA complexes, see, Paul, FUNDAMENTAL IMMUNOLOGY, 3RD ED., Raven Press, New York (1993).

The term "motif" refers to a pattern of residues in an amino acid sequence of defined length, preferably a peptide of less than about 15 amino acids in length, or less than about 13 amino acids in length, usually from about 8 to about 13 amino acids (e.g., 8, 9, 10, 11, 12, or 13) for a class I HLA motif and from about 6 to about 25 amino acids (e.g., 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, or 25) for a class II HLA motif, which is recognized by a particular HLA molecule. Motifs are typically different for each HLA protein encoded by a given human HLA allele. These motifs often differ in their pattern of the primary and secondary anchor residues. See Tables 1-3.

[0088] A "native" or a "wild type" sequence refers to a sequence found in nature.

[0089] A "negative binding residue" or "deleterious residue" is an amino acid which, if present at certain positions (typically not primary anchor positions) in a peptide epitope, results in decreased binding affinity of the peptide for the peptide's corresponding HLA molecule.

[0090] The term "peptide" is used interchangeably with "oligopeptide" in the present specification to designate a series of residues, typically L-amino acids, connected one to the other, typically by peptide bonds between the α -amino and carboxyl groups of adjacent amino acids.

[0091] A "PanDR binding" peptide or "PADRE®" peptide (Epimmune, San Diego, CA) is a member of a family of molecules that binds more than one HLA class II DR molecule. The pattern that defines the PADRE® family of molecules can be referred to as an HLA Class II supermotif. A PADRE® molecule binds to HLA-DR molecules and stimulates in vitro and in vivo human helper T lymphocyte (HTL) responses. For a further definition of the PADRE® family, see copending application US serial Nos. 09/709,774, filed November 11, 2000; and 09/707,738, filed November 6, 2000; PCT publication Nos WO 95/07707, and WO 97/26784; U.S. Patent Nos. 5,736,142 issued April 7, 1998; 5,679,640, issued October 21, 1997; and 6,413,935, issued July 2, 2002.

[0092] "Pharmaceutically acceptable" refers to a generally non-toxic, inert, and/or physiologically compatible composition or component of a composition.

[0093] A "pharmaceutical excipient" or "excipient" comprises a material such as an adjuvant, a carrier, pH-adjusting and buffering agents, tonicity adjusting agents, wetting agents, preservatives, and the like. A "pharmaceutical excipient" is an excipient which is pharmaceutically acceptable.

A "primary anchor residue" is an amino acid at a specific position along a peptide [0094] sequence which is understood to provide a contact point between the immunogenic peptide and the HLA molecule. One, two or three, primary anchor residues within a peptide of defined length generally defines a "motif" for an immunogenic peptide. These residues are understood to fit in close contact with peptide binding grooves of an HLA molecule, with their side chains buried in specific pockets of the binding grooves themselves. In one embodiment of an HLA class I motif, the primary anchor residues are located at position 2 (from the amino terminal position) and at the carboxyl terminal position of a peptide epitope in accordance with the invention. The primary anchor positions for each motif and supermotif of HLA Class I are set forth in Tables 1-2. For example, analog peptides can be created by altering the presence or absence of particular residues in these anchor positions. Such analogs are used to modulate the binding affinity of an epitope comprising a particular motif or supermotif. A "preferred primary anchor residue" is an anchor residue of a motif or supermotif that is associated with optimal binding. Preferred primary anchor residues are indicated in bold-face in Tables 1-2. A "tolerated primary anchor residue" is an anchor residue of a motif or supermotif that is associated with binding to a lesser extent than a preferred residue. Tolerated primary anchor residues are indicated in italicized text in Tables 1-2.

[0095] "Promiscuous recognition" by a TCR is where a distinct peptide is recognized by the various T cell clones in the context of various HLA molecules. Promiscuous binding by an HLA molecule is synonymous with cross-reactive binding.

[0096] A "protective immune response" or "therapeutic immune response" refers to a CTL and/or an HTL response to an antigen derived from an antigen of an infectious agent, which in some way prevents or at least partially arrests disease symptoms, side effects or progression. The immune response may also include an antibody response which has been facilitated by the stimulation of helper T cells.

[0097] By "ranking" the variants in a population of peptide epitopes is meant ordering each variant by its frequency of occurrance relative to the other variants.

[0098] The term "residue" refers to an amino acid or amino acid mimetic incorporated into a peptide or protein by an amide bond or amide bond mimetic.

[0099] A "secondary anchor residue" is an amino acid at a position other than a primary anchor position in a peptide which may influence peptide binding. A secondary anchor residue occurs at a significantly higher frequency amongst HLA-bound peptides than would be expected by random

distribution of amino acids at a given position. A secondary anchor residue can be identified as a residue which is present at a higher frequency among high or intermediate affinity binding peptides, or a residue otherwise associated with high or intermediate affinity binding. The secondary anchor residues are said to occur at "secondary anchor positions." For example, analog peptides can be created by altering the presence or absence of particular residues in these secondary anchor positions. Such analogs are used to finely modulate the binding affinity of an epitope comprising a particular motif or supermotif. The terminology "fixed peptide" is generally used to refer to an analog peptide that has changes in primary anchore position; not secondary.

- [00100] A "subdominant epitope" is an epitope which evokes little or no response upon immunization with a whole antigen or a fragment of the whole antigen comprising a subdominant epitope and a dominant epitope, which comprise the epitope, but for which a response can be obtained by immunization with an isolated peptide, and this response (unlike the case of cryptic epitopes) is detected when whole antigen or a fragment of the whole antigen comprising a subdominant epitope and a dominant epitope is used to recall the response in vitro or in vivo.
- [00101] A "supermotif" is a peptide binding specificity shared by HLA molecules encoded by two or more HLA alleles. Preferably, a supermotif-bearing peptide is recognized with high or intermediate affinity (as defined herein) by two or more HLA antigens.
- [00102] "Synthetic peptide" refers to a peptide that is abtained from a non-natural source, e.g., is man-made. Such peptides may be produced using such methods as chemical synthesis or recombinant DNA technology. "Synthetic peptides" include "fusion proteins."
- As used herein, a "vaccine" is a composition used for vaccination, e.g., for prophylaxis or therapy, that comprises one or more peptides of the invention. There are numerous embodiments of vaccines in accordance with the invention, such as by a cocktail of one or more peptides; one or more peptides of the invention comprised by a polyepitopic peptide; or nucleic acids that encode such peptides or polypeptides, e.g., a minigene that encodes a polyepitopic peptide. The "one or more peptides" can include any whole unit integer from 1-150, e.g., at least 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, or 150 or more peptides of the invention. The peptides or polypeptides can optionally be modified, such as by lipidation, addition of targeting or other sequences. HLA class I-binding peptides of the invention can be linked to HLA class II-binding peptides, e.g., a PADRE® universal HTL-bindind peptide, to facilitate activation of both cytotoxic T lymphocytes and helper T lymphocytes. Vaccines can comprise peptide pulsed antigen presenting cells, e.g., dendritic cells.
- [00104] A "variant of a peptide epitope" refers to a peptide that is identified from a different viral strain at the same position in an aligned sequence, and that varies by one or

more amino acids from the parent peptide epitope. Examples of peptide epitope variants include those shown in Tables 6-9 and Figures 1A-4. A "variant of an antigen" refers to an antigen that comprises at least one variant of a peptide epitope. Examples of antigen variants include those listed by sequence and/or accession number in Tables 10-22. A "variant of an infectious agent" refers to an infectious agent whose genome encodes at least one variant of an antigen. Variants of infectious agents are related viral, bacterial, funagl, or protozoan strains or isolates that vary in sequence but cause the same disease symptoms. Examples of infectious agent variants include HIV Clade A, B, and C subtypes, HBV subtypes adr, ayr, adw, and ayw, HCV types 1, 2, 3, 4, 5, and 6, HPV strains 1-92 (preferably strains 16, 18, 31, 33, 45, 52, 56, and 58) (see Table 10, listing accession numbers for the complete genome sequences of 167 HIV variants; Table 22, showing an alignment of the complete polyprotein sequences of 50 HCV variants) (see also, Human Retroviruses and AIDS 2000: A Compilation and Analysis of Nucleic Acid and Amino Acid Sequences, Kuiken CL, et al., Eds. Theoretical Biology and Biophysics Group, Los Alamos National Laboratory, Los Alamos, NM).

The nomenclature used to describe peptides/proteins follows the conventional practice [00105] wherein the amino group is presented to the left (the N-terminus) and the carboxyl group to the right (the C-terminus) of each amino acid residue. When amino acid residue positions are referred to in a peptide epitope they are numbered in an amino to carboxyl direction with position one being the position closest to the amino terminal end of the epitope, or the peptide or protein of which it may be a part. In the formulae representing selected specific embodiments of the present invention, the amino- and carboxyl-terminal groups, although not specifically shown, are in the form they would assume at physiologic pH values, unless otherwise specified. In the amino acid structure formulae, each residue is generally represented by standard three letter or single letter designations. The L-form of an amino acid residue is represented by a capital single letter or a capital first letter of a three-letter symbol, and the D-form for those amino acids having D-forms is represented by a lower case single letter or a lower case three letter symbol. However, when three letter symbols or full names are used without capitals, they may refer to L amino acids. Glycine has no asymmetric carbon atom and is simply referred to as "Gly" or "G". The amino acid sequences of peptides set forth herein are generally designated using the standard single letter symbol. (A, Alanine; C, Cysteine; D, Aspartic Acid; E, Glutamic Acid; F, Phenylalanine; G, Glycine; H, Histidine; I, Isoleucine; K, Lysine; L, Leucine; M, Methionine; N, Asparagine; P, Proline; Q, Glutamine; R, Arginine; S, Serine; T, Threonine; V, Valine; W, Tryptophan; and Y, Tyrosine.) In addition to these symbols, "B"in the single letter abbreviations used herein

designates α -amino butyric acid. In some embodiments, α -amino butyric acid may be replaced with cysteine.

Acronyms used herein are as follows:

APC: Antigen presenting cell CD3: Pan T cell marker

CD4: Helper T lymphocyte marker CD8: Cytotoxic T lymphocyte marker

CEA: Carcinoembryonic antigen (see, e.g., SEQ ID NO: 363)

CTL: Cytotoxic T lymphocyte

DC: Dendritic cells. DC functioned as potent antigen presenting cells by stimulating

cytokine release from CTL lines that were specific for a model peptide derived from hepatitis B virus. *In vivo* experiments using DC pulsed *ex vivo* with an HBV peptide epitope have stimulated CTL immune responses *in vivo* following delivery

to naïve mice.

DLT: Dose-limiting toxicity, an adverse event related to therapy.

DMSO: Dimethylsulfoxide

ELISA: Enzyme-linked immunosorbant assay

E:T: Effector:Target ratio

G-CSF: Granulocyte colony-stimulating factor

GM-CSF: Granulocyte-macrophage (monocyte)-colony stimulating factor

HBV: Hepatitis B virus

HER2/neu: A tumor associated antigen; c-erbB-2 is a synonym (see, e.g., SEQ ID NO: 364)

HLA: Human leukocyte antigen

HLA-DR: Human leukocyte antigen class II

HPLC: High Performance Liquid Chromatography

HTC: Helper T Cell

HTL: Helper T Lymphocyte. A synonym for HTC.

ID: Identity

IFNy: Interferon gamma
IL-4: Interleukin-4,
IV: Intravenous

LU_{30%}: Cytotoxic activity for 10⁶ effector cells required to achieve 30% lysis of a target

cell population, at a 100:1 (E:T) ratio.

MAb: Monoclonal antibody

MAGE: Melanoma antigen (see, e.g., SEQ ID NO: 365 and 366 for MAGE2 and MAGE3)

MLR: Mixed lymphocyte reaction

MNC: Mononuclear cells PB: Peripheral blood

PBMC: Peripheral blood mononuclear cell

ProGPTM: ProgenipoietinTM product (Searle, St. Louis, MO), a chimeric flt3/G-

CSF receptor agonist.

SC: Subcutaneous

S.E.M.: Standard error of the mean

QD: Once a day dosing

TAA: Tumor Associated Antigen
TNF: Tumor necrosis factor
WBC: White blood cells

[00106] The following describes the peptides, nucleic acid molecules, compositions, and methods of the invention in more detail.

Methods of Identifying Candidate Peptide Epitopes

[00107] The present invention is directed to methods for selecting a variant of a peptide epitope which induces a CTL response against another variant(s) of the peptide epitope, by determining whether the variant comprises only conserved residues, as defined herein, at non-anchor positions in comparison to the other variant(s).

[00108] In some embodiments, antigen sequences from a population of an infectious agent, said antigens comprising variants of a peptide epitope, are optionally aligned (manually or by computer) along their length, preferably their full length. Variant(s) of a peptide epitope (preferably naturally occurring variants), each 8-11 amino acids in length and comprising the same MHC class I supermotif or motif, are identified manually or with the aid of a computer. In some embodiments, a variant is optionally chosen which comprises preferred anchor residues of said motif and/or which occurs with high frequency within the population of variants. In other embodiments, a variant is randomly chosen. The randomly or otherwise chosen variant is compared to from one to all the remaining variant(s) to determine whether it comprises only conserved residues in the non-anchor positions relative to from one to all the remaining variant(s).

[00109] The present invention is also directed to variants identified by the methods above; peptides comprising such variants; nucleic acids encoding such variants and peptides; cells comprising such variants, and/or peptides, and/or nucleic acids; compositions comprising such variants, and/or peptides, and/or nucleic acids, and/or cells; as well as therapeutic and diagnostic methods for using such variants, peptides, nucleic acids, cells, and compositions.

[00110] In some embodiments, the invention is directed to a method for identifying a candidate peptide epitope which induces a HLA class I CTL response against variants of said peptide epitope, comprising

 a) identifying, from a particular antigen of an infectious agent, variants of a peptide epitope 8-11 amino acids in length, each variant comprising primary anchor residues of the same HLA class I binding motif; and

b) determining whether one of said variants comprises only conserved non-anchor residues in comparison to at least one remaining variant, thereby identifying a candidate peptide epitope.

- [00111] In some embodiments, (b) comprises identifying a variant which comprises only conserved non-anchor residues in comparison to at least 25%, at least 50%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, at least 97%, or at least 99% of the remaining variants.
- [00112] In some embodiments, the invention is directed to a method for identifying a candidate peptide epitope which induces a HLA class I CTL response against variants of said peptide epitope, comprising
 - a) identifying, from a particular antigen of an infectious agent, variants of a peptide epitope 8-11 amino acids in length, each variant comprising primary anchor residues of the same HLA class I binding motif;
 - determining whether each of said variants comprises conserved, semiconserved or non-conserved non-anchor residues in comparison to each of the remaining variants; and
 - c) identifying a variant which comprises only conserved non-anchor residues in comparison to at least one remaining variant.
- [00113] In some embodiments, (c) comprises identifying a variant which comprises only conservative non-anchor residues in comparison to at least 25%, at least 50%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, at least 97%, or at least 99% of the remaining variants.
- [00114] In some embodiments, the invention is directed to a method for identifying a candidate peptide epitope which induces a HLA class I CTL response against variants of said peptide epitope, comprising
 - a) identifying, from a particular antigen of an infectious agent, a
 population of variants of a peptide epitope 8-11 amino acids in length,
 each peptide epitope comprising primary anchor residues of the same
 HLA class I binding motif;
 - b) choosing a variant selected from the group consisting of:
 - i) a variant which comprises preferred primary anchor residues of said motif; and

ii) a variant which occurs with high frequency within the population of variants; and

- c) determining whether the variant of (b) comprises only conserved nonanchor residues in comparison to at least one remaining variant, thereby identifying a candidate peptide epitope.
- [00115] In some embodiments, (c) comprises identifying a variant which comprises only conservative non-anchor residues in comparison to at least 25%, at least 50%, at least 75%, at least 80%, at least 85%, at least 90%, at least 95%, at least 97%, or at least 99% of the remaining variants.
- [00116] In some embodiments, the invention is directed to method for identifying a candidate peptide epitope which induces a HLA class I CTL response against variants of said peptide epitope, comprising
 - a) identifying, from a particular antigen of an infectious agent, a
 population of variants of a peptide epitope 8-11 amino acids in length,
 each peptide epitope comprising primary anchor residues of the same
 HLA class I binding motif;
 - b) choosing a variant selected from the group consisting of:
 - i) a variant which comprises preferred primary anchor residues of said motif; and
 - ii) a variant which occurs with high frequency within the population of variants; and
 - c) determining whether the variant of (b) comprises conserved, semiconserved or non-conserved non-anchor residues in comparison to each of the remaining variants; and
 - d) identifying a variant which comprises only conserved non-anchor residues in comparison to at least one remaining variant.
- [00117] In some embodiments, (d) comprises identifying a variant which comprises only conservative non-anchor residues in comparison to at least 25%, at least 50%, at least 50%, at least 95%, at least 97%, or at least 99% of the remaining variants.
- [00118] In some embodiments, (a) comprises aligning the sequences of said antigens.

[00119] In some embodiments, (b) comprises comprises choosing a variant which comprises preferred primary anchor residues of said motif.

- [00120] In some embodiments, (b) comprises comprises choosing a variant which occurs with high frequency within said population.
- [00121] In some embodiments, (b) comprises ranking said variants by frequency of occurrence within said population.
- [00122] In some embodiments, (b) comprises choosing a variant which comprises preferred primary anchor residues of said motif and which occurs with high frequency within said population.
- [00123] In some embodiments, (b) comprises ranking said variants by frequency of occurrence within said population.
- [00124] In some embodiments, the identified variant comprises the fewest conserved anchor residues in comparison to each of the remaining variants.
- [00125] In some embodiments, the remaining variants comprise 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 27, 28, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 220, 240, 260, 280, or 300 variants.
- [00126] In some embodiments, the infectious agent is selected from the group consisting of: HIV, HBV, HCV, HPV, Plasmodium falciparum, Influenza virus, and Dengue virus, Epstein-Barr virus, Mycobacterium tuberculosis, Chlamydia, Candida albicans, Cryptococcus neoformans, Coccidoides spp., Histoplasma spp, Aspergillus fumigatis, Plasmodium spp., Trypanosoma spp., Schistosoma spp., and Leishmania spp.
- [00127] In some embodiments, the infectious agent is selected from the group consisting of: HIV, HBV, HCV, HPV, Plasmodium falciparum, Influenza virus, and Dengue virus.
- [00128] In some embodiments, the infectious agent is HIV and the antigen is selected from the group consisting of: Gag, Env, Pol, Nef, Rev, Tat, Vif, Vpr, and Vpu.
- [00129] In some embodiments, the infectious agent is HBV and the antigen is selected from the group consisting of: Pol, Env, Core, and NS1/Env2.
- [00130] In some embodiments, the infectious agent is HCV and the antigen is selected from the group consisting of: Core, E1, E2, NS1, NS2, NS3, NS4, and NS5.
- [00131] In some embodiments, the infectious agent is HPV and the antigen is selected from the group consisting of: E1, E2, E3, E4, E5, E6, E7, L1, and L2.

[00132] In some embodiments, the infectious agent is *Plasmodium falciparum* and the antigen is selected from the group consisting of: CSP, SSP2, EXP1, LSA1.

- [00133] In some embodiments, the selected variant and the at least one remaining variant comprise different primary anchor residues of the same motif or supermotif.
- [00134] In some embodiments, the motif or supermotif is selected from the group consisting of those in Tables 1-2.
- [00135] In some embodiments, the conserved non-anchor residues are at any of positions 3-7 of said variant.
- [00136] In some embodiments, the variant comprises only 1-3 conserved non-anchor residues compared to at least one remaining variant.
- [00137] In some embodiments, the variant comprises only 1-2 conserved non-anchor residues compared to at least one remaining variant.
- [00138] In some embodiments, the variant comprises only 1 conserved non-anchor residue compared to at least one remaining variant.
- [00139] In some embodiments, the infectious agent is HPV, and further wherein, the HPV infectious agent is selected from the group consisting of HPV strains 16, 18, 31, 33, 45, 52, 56, and 58.
- [00140] In some embodiments, the variants are a population of naturally occurring variants.
- [00141] Optional Alignment. Optionally, antigen sequences, either full-length or partial, may be aligned mannually or by computer. Convenient computer programs for aligning multiple sequences include Omiga, Oxford software, version 1.1.3, using ClustalW alignment, using an open gap penalty of 10.0, extend gap penalty of 0.05, and delay divergent sequences of 40.0 (See, e.g., Table 21); and BLASTP 2.2.5 (Nov-16-2002) (Altschul, S.F., et al., Nucleic Acids Res. 25:3389-3402 (1997)) using a cutoff = 3e-88 (to select human sequences) (see, e.g., Table 20). Alternatively, alignments may be obtained through publicly available sources such as published journal articles and published patent documents or as disclosed herein (see, e.g., Tables 10-22).
- [00142] HLA Class I Motifs Indicative of CTL Inducing Peptide Epitopes. A large fraction of HLA class I and class II molecules can be classified into a relatively few supertypes, each respective supertype characterized by largely overlapping peptide binding repertoires, and consensus structures of the main peptide binding pockets. Thus,

peptides of the present invention are preferably identified by the primary residues of any one of several HLA-specific amino acid motifs, or if the presence of the motif corresponds to the ability to bind several allele-specific HLA antigens, a supermotif (see, e.g., Tables 1-2). The preferred primary residues are indicated in bold, while the tolerated primary residues are indicated by italics.

- [00143] The primary anchor residues of the HLA class I peptide epitope supermotifs and motifs are summarized in Tables 1-2. Preferred primary anchors are shown in bold, while tolerated primary anchors are shown in italics. Primary and secondary anchor positions for HLA Class I are summarized in Table 3. Allele-specific HLA molecules that fall within the various HLA class I supertypes are listed in Table 4. In some cases, patterns of amino acid residues are present in both a motif and a supermotif. The relationship of a particular motif and any related supermotif is indicated in the description of the individual motifs.
- [00144] Thus, the peptide motifs and supermotifs described below, and summarized in Tables 1-2, provide guidance for the identification and use of peptide epitopes comprising primary anchor residues of motifs or supermotifs in accordance with the invention.
- [00145] Allele-specific HLA molecules that comprise HLA class I supertype families are listed in Table 4.
- [00146] HLA-A1 supermotif. The HLA-A1 supermotif is characterized by the presence in peptide ligands of a small (T or S) or hydrophobic (L, I, V, or M) primary anchor residue in position 2, and an aromatic (Y, F, or W) primary anchor residue at the C-terminal position of the epitope. The corresponding family of HLA molecules that bind to the A1 supermotif (i.e., the HLA-A1 supertype) is comprised of at least A*0101, A*2601, A*2602, A*2501, and A*3201 (see, e.g., DiBrino, M. et al., J. Immunol. 151:5930, 1993; DiBrino, M. et al., J. Immunol. 152:620, 1994; Kondo, A. et al., Immunogenetics 45:249, 1997). Other allele-specific HLA molecules predicted to be members of the A1 superfamily are shown in Table 4. Peptides binding to each of the individual HLA proteins can be modulated by substitutions at primary and/or secondary anchor positions, preferably choosing respective residues specified for the supermotif.
- [00147] HLA-A2 supermotif. Primary anchor specificities for allele-specific HLA-A2.1 molecules (see, e.g., Falk et al., Nature 351:290-296, 1991; Hunt et al., Science 255:1261-1263, 1992; Parker et al., J. Immunol. 149:3580-3587, 1992; Ruppert et al., Cell 74:929-937, 1993) and cross-reactive binding among HLA-A2 and -A28 molecules have been

described. (See, e.g., Fruci et al., Human Immunol. 38:187-192, 1993; Tanigaki et al., Human Immunol. 39:155-162, 1994; Del Guercio et al., J. Immunol. 154:685-693, 1995; Kast et al., J. Immunol. 152:3904-3912, 1994 for reviews of relevant data.) These primary anchor residues define the HLA-A2 supermotif; which presence in peptide ligands corresponds to the ability to bind several different HLA-A2 and -A28 molecules. The HLA-A2 supermotif comprises peptide ligands with L, I, V, M, A, T, or Q as a primary anchor residue at position 2 and L, I, V, M, A, or T as a primary anchor residue at the C-terminal position of the epitope.

- [00148] The corresponding family of HLA molecules (i.e., the HLA-A2 supertype that binds these peptides) is comprised of at least: A*0201, A*0202, A*0203, A*0204, A*0205, A*0206, A*0207, A*0209, A*0214, A*6802, and A*6901. Other allele-specific HLA molecules predicted to be members of the A2 superfamily are shown in Table 4. As explained in detail below, binding to each of the individual allele-specific HLA molecules can be modulated by substitutions at the primary anchor and/or secondary anchor positions, preferably choosing respective residues specified for the supermotif.
- [00149] The motifs comprising the primary anchor residues V, A, T, or Q at position 2 and L, I, V, A, or T at the C-terminal position are those most particularly relevant to the invention claimed herein.
- [00150] HLA-A3 supermotif. The HLA-A3 supermotif is characterized by the presence in peptide ligands of A, L, I, V, M, S, or, T as a primary anchor at position 2, and a positively charged residue, R or K, at the C-terminal position of the epitope, e.g., in position 9 of 9-mers (see, e.g., Sidney et al., Hum. Immunol. 45:79, 1996). Exemplary members of the corresponding family of HLA molecules (the HLA-A3 supertype) that bind the A3 supermotif include at least A*0301, A*1101, A*3101, A*3301, and A*6801. Other allele-specific HLA molecules predicted to be members of the A3 supertype are shown in Table 4. As explained in detail below, peptide binding to each of the individual allele-specific HLA proteins can be modulated by substitutions of amino acids at the primary and/or secondary anchor positions of the peptide, preferably choosing respective residues specified for the supermotif.
- [00151] HLA-A24 supermotif. The HLA-A24 supermotif is characterized by the presence in peptide ligands of an aromatic (F, W, or Y) or hydrophobic aliphatic (L, I, V, M, or T) residue as a primary anchor in position 2, and Y, F, W, L, I, or M as primary anchor at the C-terminal position of the epitope (see, e.g., Sette and Sidney, Immunogenetics, in press,

1999). The corresponding family of HLA molecules that bind to the A24 supermotif (i.e., the A24 supertype) includes at least A*2402, A*3001, and A*2301. Other allele-specific HLA molecules predicted to be members of the A24 supertype are shown in Table 4. Peptide binding to each of the allele-specific HLA molecules can be modulated by substitutions at primary and/or secondary anchor positions, preferably choosing respective residues specified for the supermotif.

[00152] HLA-B7 supermotif. The HLA-B7 supermotif is characterized by peptides bearing proline in position 2 as a primary anchor, and a hydrophobic or aliphatic amino acid (L, I, V, M, A, F, W, or Y) as the primary anchor at the C-terminal position of the epitope. The corresponding family of HLA molecules that bind the B7 supermotif (i.e., the HLA-B7 supertype) is comprised of at least twenty six HLA-B proteins including: B*0702, B*0703, B*0704, B*0705, B*1508, B*3501, B*3502, B*3503, B*3504, B*3505, B*3506, B*3507, B*3508, B*5101, B*5102, B*5103, B*5104, B*5105, B*5301, B*5401, B*5501, B*5502, B*5601, B*5602, B*6701, and B*7801 (see, e.g., Sidney, et al., J. Immunol. 154:247, 1995; Barber, et al., Curr. Biol. 5:179, 1995; Hill, et al., Nature 360:434, 1992; Rammensee, et al., Immunogenetics 41:178, 1995 for reviews of relevant data). Other allele-specific HLA molecules predicted to be members of the B7 supertype are shown in Table 4. As explained in detail below, peptide binding to each of the individual allele-specific HLA proteins can be modulated by substitutions at the primary and/or secondary anchor positions of the peptide, preferably choosing respective residues specified for the supermotif.

in peptide ligands of a positively charged (R, H, or K) residue as a primary anchor at position 2, and a hydrophobic (F, Y, L, W, M, I, A, or V) residue as a primary anchor at the C-terminal position of the epitope (see, e.g., Sidney and Sette, Immunogenetics, in press, 1999). Exemplary members of the corresponding family of HLA molecules that bind to the B27 supermotif (i.e., the B27 supertype) include at least B*1401, B*1402, B*1509, B*2702, B*2703, B*2704, B*2705, B*2706, B*3801, B*3901, B*3902, and B*7301. Other allele-specific HLA molecules predicted to be members of the B27 supertype are shown in Table 4. Peptide binding to each of the allele-specific HLA molecules can be modulated by substitutions at primary and/or secondary anchor positions, preferably choosing respective residues specified for the supermotif.

[00154] HLA-B44 supermotif. The HLA-B44 supermotif is characterized by the presence in peptide ligands of negatively charged (D or E) residues as a primary anchor in position 2, and hydrophobic residues (F, W, Y, L, I, M, V, or A) as a primary anchor at the C-terminal position of the epitope (see, e.g., Sidney et al., Immunol. Today 17:261, 1996). Exemplary members of the corresponding family of HLA molecules that bind to the B44 supermotif (i.e., the B44 supertype) include at least: B*1801, B*1802, B*3701, B*4001, B*4002, B*4006, B*4402, B*4403, and B*4006. Peptide binding to each of the allele-specific HLA molecules can be modulated by substitutions at primary and/or secondary anchor positions; preferably choosing respective residues specified for the supermotif.

in peptide ligands of a small aliphatic residue (A, S, or T) as a primary anchor residue at position 2, and an aromatic or hydrophobic residue (F, W, Y, L, I, V, M, or A) as a primary anchor residue at the C-terminal position of the epitope (see, e.g., Sidney and Sette, Immunogenetics, in press, 1999 for reviews of relevant data). Exemplary members of the corresponding family of HLA molecules that bind to the B58 supermotif (i.e., the B58 supertype) include at least: B*1516, B*1517, B*5701, B*5702, and B*5801. Other allele-specific HLA molecules predicted to be members of the B58 supertype are shown in Table 4. Peptide binding to each of the allele-specific HLA molecules can be modulated by substitutions at primary and/or secondary anchor positions, preferably choosing respective residues specified for the supermotif.

in peptide ligands of the polar aliphatic residue Q or a hydrophobic aliphatic residue (L, V, M, I, or P) as a primary anchor in position 2, and a hydrophobic residue (F, W, Y, M, I, V, L, or A) as a primary anchor at the C-terminal position of the epitope (see, e.g., Sidney and Sette, Immunogenetics, in press, 1999). Exemplary members of the corresponding family of HLA molecules that bind to the B62 supermotif (i.e., the B62 supertype) include at least: B*1501, B*1502, B*1513, and B5201. Other allele-specific HLA molecules predicted to be members of the B62 supertype are shown in Table 4. Peptide binding to each of the allele-specific HLA molecules can be modulated by substitutions at primary and/or secondary anchor positions, preferably choosing respective residues specified for the supermotif.

[00157] HLA-A1 motif. The HLA-A1 motif is characterized by the presence in peptide ligands of T, S, or M as a primary anchor residue at position 2 and the presence of Y as a

primary anchor residue at the C-terminal position of the epitope. An alternative allelespecific A1 motif is characterized by a primary anchor residue at position 3 rather than position 2. This motif is characterized by the presence of D, E, A, or S as a primary anchor residue in position 3, and a Y as a primary anchor residue at the C-terminal position of the epitope (see, e.g., DiBrino et al., J. Immunol., 152:620, 1994; Kondo et al., Immunogenetics 45:249, 1997; and Kubo et al., J. Immunol. 152:3913, 1994 for reviews of relevant data). Peptide binding to HLA A1 can be modulated by substitutions at primary and/or secondary anchor positions, preferably choosing respective residues specified for the motif.

[00158] Those epitopes comprising T, S, or M at position 2 and Y at the C-terminal position are also HLA-A1 supermotif-bearing peptide epitopes, as these residues are a subset of the A1 supermotif primary anchors.

HLA-A*0201 motif. An HLA-A2*0201 motif was determined to be characterized [00159] by the presence in peptide ligands of L or M as a primary anchor residue in position 2, and L or V as a primary anchor residue at the C-terminal position of a 9-residue peptide (see, e.g., Falk et al., Nature 351:290-296, 1991) and was further found to comprise an I at position 2 and I or A at the C-terminal position of a nine amino acid peptide (see, e.g., Hunt et al., Science 255:1261-1263, March 6, 1992; Parker et al., J. Immunol. 149:3580-3587, 1992). The A*0201 allele-specific motif has also been defined by the present inventors to additionally comprise V, A, T, or Q as a primary anchor residue at position 2, and M or T as a primary anchor residue at the C-terminal position of the epitope (see, e.g., Kast et al., J. Immunol. 152:3904-3912, 1994). Thus, the HLA-A*0201 motif comprises peptide ligands with L, I, V, M, A, T, or Q as primary anchor residues at position 2 and L, I, V, M, A, or T as a primary anchor residue at the C-terminal position of the epitope. The preferred and tolerated residues that characterize the primary anchor positions of the HLA-A*0201 motif are identical to the residues describing the A2 supermotif. (For reviews of relevant data, see, e.g., Del Guercio et al., J. Immunol. 154:685-693, 1995; Ruppert et al., Cell 74:929-937, 1993; Sidney et al., Immunol. Today 17:261-266, 1996; Sette and Sidney, Curr. Opin. in Immunol. 10:478-482, 1998). Secondary anchor residues that characterize the A*0201 motif have additionally been defined (see, e.g., Ruppert et al., Cell 74:929-937, 1993). These are shown in Table 3. Peptide binding to HLA-A*0201 molecules can be modulated by substitutions at primary and/or secondary anchor positions, preferably choosing respective residues specified for the motif.

[00160] HLA-A3 motif. The HLA-A3 motif is characterized by the presence in peptide ligands of L, M, V, I, S, A, T, F, C, G, or D as a primary anchor residue at position 2, and the presence of K, Y, R, H, F, or A as a primary anchor residue at the C-terminal position of the epitope (see, e.g., DiBrino et al., Proc. Natl. Acad. Sci USA 90:1508, 1993; and Kubo et al., J. Immunol. 152:3913-3924, 1994). Peptide binding to HLA-A3 can be modulated by substitutions at primary and/or secondary anchor positions, preferably choosing respective residues specified for the motif.

- [00161] The A3 supermotif primary anchor residues comprise a subset of the A3- and A11-allele specific motif primary anchor residues.
- [00162] HLA-A11 motif. The HLA-A11 motif is characterized by the presence in peptide ligands of V, T, M, L, I, S, A, G, N, C, D, or F as a primary anchor residue in position 2, and K, R, Y, or H as a primary anchor residue at the C-terminal position of the epitope (see, e.g., Zhang et al., Proc. Natl. Acad. Sci USA 90:2217-2221, 1993; and Kubo et al., J. Immunol. 152:3913-3924, 1994). Peptide binding to HLA-A11 can be modulated by substitutions at primary and/or secondary anchor positions, preferably choosing respective residues specified for the motif.
- [00163] There is extensive overlap between the A3 and A11 motif primary anchor specificities.
- [00164] HLA-A24 motif. The HLA-A24 motif is characterized by the presence in peptide ligands of Y, F, W, or M as a primary anchor residue in position 2, and F, L, I, or W as a primary anchor residue at the C-terminal position of the epitope (see, e.g., Kondo et al., J. Immunol. 155:4307-4312, 1995; and Kubo et al., J. Immunol. 152:3913-3924, 1994). Peptide binding to HLA-A24 molecules can be modulated by substitutions at primary and/or secondary anchor positions; preferably choosing respective residues specified for the motif.
- [00165] The primary anchor residues characterizing the A24 allele-specific motif comprise a subset of the A24 supermotif primary anchor residues.
- [00166] Computer or Manual Screening. Peptides bearing HLA Class I or Class II supermotifs or motifs may be identified by computer searches or manually, e.g., as follows. In utilizing computer screening to identify peptide epitopes, a protein sequence or translated sequence may be analyzed using software developed to search for motifs, for example the "FINDPATTERNS' program (Devereux, et al. Nucl. Acids Res. 12:387-395,

1984) or MotifSearch 1.4 software program (D. Brown, San Diego, CA) to identify potential peptide sequences containing appropriate HLA binding motifs. The identified peptides can be scored using customized polynomial algorithms to predict their capacity to bind specific HLA class I or class II alleles. As appreciated by one of ordinary skill in the art, a large array of computer programming software and hardware options are available in the relevant art which can be employed to implement the motifs in order to evaluate (e.g., without limitation, to identify epitopes, identify epitope concentration per peptide length, or to generate analogs) known or unknown peptide sequences.

[00167] Translated antigen protein sequences may be analyzed using a text string search software program, e.g., MotifSearch 1.4 (D. Brown, San Diego) to identify potential peptide sequences containing appropriate HLA binding motifs; alternative programs are readily produced in accordance with information in the art in view of the motif/supermotif disclosure herein. Furthermore, such calculations can be made mentally.

[00168] Identified supermotif or motif sequences may be scored using polynomial algorithms to predict their capacity to bind to specific HLA-Class I or Class II molecules. These polynomial algorithms take into account both extended and refined motifs (that is, to account for the impact of different amino acids at different positions), and are essentially based on the premise that the overall affinity (or ΔG) of peptide-HLA molecule interactions can be approximated as a linear polynomial function of the type:

"
$$\Delta G$$
" = $a_{1i} \times a_{2i} \times a_{3i} \dots \times a_{ni}$

where a_{ji} is a coefficient which represents the effect of the presence of a given amino acid (j) at a given position (i) along the sequence of a peptide of n amino acids. The crucial assumption of this method is that the effects at each position are essentially independent of each other (i.e., independent binding of individual side-chains). When residue j occurs at position i in the peptide, it is assumed to contribute a constant amount j_i to the free energy of binding of the peptide irrespective of the sequence of the rest of the peptide. This assumption is justified by studies from our laboratories that demonstrated that peptides are bound to MHC and recognized by T cells in essentially an extended conformation (data omitted herein).

[00169] The method of derivation of specific algorithm coefficients has been described in Gulukota et al., J. Mol. Biol. 267:1258-126, 1997; (see also Sidney et al., Human Immunol. 45:79-93, 1996; and Southwood et al., J. Immunol. 160:3363-3373, 1998). Briefly, for all i positions, anchor and non-anchor alike, the geometric mean of the average

relative binding (ARB) of all peptides carrying j is calculated relative to the remainder of the group, and used as the estimate of j_i . For Class II peptides, if multiple alignments are possible, only the highest scoring alignment is utilized, following an iterative procedure. To calculate an algorithm score of a given peptide in a test set, the ARB values corresponding to the sequence of the peptide are multiplied. If this product exceeds a chosen threshold, the peptide is predicted to bind. Appropriate thresholds are chosen as a function of the degree of stringency of prediction desired.

- [00170] Additional methods to identify preferred peptide sequences, which also make use of specific motifs, include the use of neural networks and molecular modeling programs (see, e.g., Milik et al., Nature Biotechnology 16:753, 1998; Altuvia et al., Hum. Immunol. 58:1, 1997; Altuvia et al., J. Mol. Biol. 249:244, 1995; Buus, S. Curr. Opin. Immunol. 11:209-213, 1999; Brusic, V. et al., Bioinformatics 14:121-130, 1998; Parker et al., J. Immunol. 152:163, 1993; Meister et al., Vaccine 13:581, 1995; Hammer et al., J. Exp. Med. 180:2353, 1994; Sturniolo et al., Nature Biotechnol. 17:555 1999).
- [00171] Conserved, Semi-conserved, and Non-conserved Non-anchor Residues. The determination of non-anchor residues as being conserved (conservative) or semi-conserved (semi-conservative) or non-conserved (non-conservative) in comparison to the non-anchor poitions of from one to all of the remaining variant(s) is defined by as follows, the results of which are summarized in Table 5.
- [00172] Table 5 shows the similarity assignments between any given amino acid pair so that a given amino acid substitution could be characterized as being a (conservative) or semi-conserved (semi-conservative) or non-conserved (non-conservative) residue.
- [00173] The degree of similarity between amino acid pairs was quantified by averaging, for each amino acid pair, the rank coefficient scores for PAM250, hydrophobicity, and side chain volume as described below. Based on the average values of these composite rankings, Table 5 shows each pair to be conserved, semi-conserved or non-conserved.
- [00174] The Dayhoff PAM250 score (Dayhoff, M.O., et al., Atlas of Protein Sequence and Structure, Vol. 5, suppl.3. (1978) M.O. Dayhoff, ed. National Biomedical Research Foundation, Washington DC, p. 345; Creighton, T.E., Proteins: structures and molecular properties (1993) (2nd edition) W.H. Freeman and Company, NY; http://prowl.rockefeller.edu/aainfo/pam250. html) is a commonly utilized protein

alignment scoring matrix which measures the percentage of acceptable point mutations (PAM) within a defined time frame. The frequencies of these mutations are different from what would be expected from the probability of random mutations, and presumably reflect a bias due to the degree of physical and chemical similarity of the amino acid pair involved in the substitution. To obtain a score of amino acid similarity that could be standardized with other measures of similarity, the PAM250 scores were converted to a rank value, where 1 indicates the highest probability of being an accepted mutation.

[00175] The most commonly utilized scales to represent the relative hydrophobicity of the 20 naturally occurring amino acids (Cornette, J., et al., J. Mol. Biol. (1987) 195:659) are those developed on the basis of experimental data by Kyte and Doolittle (Kyte, J. and R.F. Doolittle, J. Mol. Biol. (1982) 157:105), and by Fauchere and Pliska (Fauchere, J. and V. Pliska, Eur. J. Med. Chem. (1983) 18:369). The Kyte/Doolittle scale measures the H2O/organic solvent partition of individual amino acids. Because it considers the position of amino acids in folded proteins, it may most accurately reflect native hydrophobicity in the context of proteins. The Fauchere/Pliska scale measures the octanol/H2O partitioning of N-acetyl amino acid amides, and most accurately reflects hydrophobicity in the context of denatured proteins and/or small synthetic peptides. To obtain scores for hydrophobicity, each amino acid residue was ranked on both the Kyte/Doolittle and Fauchere/Pliska hydrophobicity scales. An average rank between the two scales was calculated and the average difference in hydrophobicity for each pair was calculated.

[00176] Finally, for calculating amino acid side-chain volume, the partial volume in solution obtained by noting the increase in volume of water after adding either one molecule or one gram of amino acid residue was considered (Zamyatnin, A.A., Ann. Rev. Biophys. Bioeng. (1984) 13:145; Zamyatnin, A.A., Prog. Biophys. Mol. Biol. (1972) 24:107). The absolute difference in the partial volume of each possible pairing of the 20 naturally occurring amino acids was calculated and ranked, where 1 indicated residues with the most similar volumes, and 20 the most dissimilar.

[00177] Thus, by consulting Table 5, one can determine whether a residue in a variant is considered to be conserved, semi-conserved, or non-conserved in comparison to a residue in another variant(s). The residue of the parent variant (randomly or otherwise chosen variant) is shown across the top of Table 5, and the residue of the variant(s) it is compared with is shown below the parent residue.

[00178] As shown in Table 5, each of the amino acids shown across the top of the table bears a numerically defined relationship to the remaining 19 genetically encoded amino acids. The lower the index, the higher the conservation; the same amino acid will have a similarity assignment of 1.0; maximally different amino acids will have similarity assignments approaching 20. Using the method set forth above, amino acids which are not gene-encoded can also be assigned similarity indices and can be classified with respect to any natively occurring amino acid as conserved (conservative) or semi-conserved (semi-conservative) or non-conserved (non-conservative).

Variant Peptide Epitopes

- [00179] In some embodiments, the invention is directed to an isolated peptide comprising or consisting of a variant. In some embodiments, the invention is directed to an isolated polynucleotide encoding such a peptide.
- [00180] The isolated variants of the invention are all class I binding peptides, i.e., CTL peptides. In particular, the variants of the invention comprise a motif or supermotif, as described above. Variants of the invention are those set forth in Tables 6-9 and Figures 1A-4 (SEQ ID Nos:_). Variants of the invention may be referred to herein as "variants" and "variant peptide epitopes" or referred to by Table or referred to by SEQ ID NO. Other peptide epitopes are referred to herein as CTL epitopes or CTL peptides and HTL epitopes or HTL peptides.
- [00181] Peptides and Polynucleotides. In some embodiments, the invention is directed to an isolated peptide comprising or consisting of a variant, wherein the variant consists of a sequence selected from those in Tables 6-9 and Figures 1A-4 (SEQ ID Nos:__).
- [00182] Peptides of the invention may be fusion proteins of variant(s) to CTL epitope(s), and/or HTL epitope(s), and/or linker(s), and/or spacer(s), and/or carrier(s), and/or additional amino acid(s), and/or may comprise or consist of homopolymers of a variant or heteropolymers of more than one variant, as is described in detail below.
- [00183] Peptides which comprise a variant of the invention may comprise or consist of a fragment of an antigen ("fragment" or "antigenic fragment"), wherein the fragment comprises a variant. The fragment may be a portion of any antigen of an infectious agent, e.g., the sequences in Tables 11-22 (SEQ ID Nos:__, respectively). The variant of the invention may be within the fragment or may be linked, directly or indirectly, to the fragment.
- [00184] The fragment may comprise or consist of a region of a native antigen that contains a high concentration of class I and/or class II epitopes, preferably it contains the greatest number of epitopes per amino acid length. Such epitopes can be present in a frame-shifted manner, e.g. a 10

amino acid long peptide could contain two 9 amino acid long epitopes and one 10 amino acid long epitope.

- [00185] The fragment may be less than or equal to 600 amino acids, less than or equal to 500 amino acids, less than or equal to 400 amino acids, less than or equal to 250 amino acids, less than or equal to 100 amino acids, less than or equal to 85 amino acids, less than or equal to 75 amino acids, less than or equal to 65 amino acids, or less than or equal to 50 amino acids in length. In certain embodiments, a fragment is less than 101 amino acids in length, in any increment down to 5 amino acids in length. For example, the fragment may be 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, or 100 amino acids in length. Fragments of full length antigens may be fragments from about residue 1-20, 21-40, 41-60, 61-80, 81-100, 101-120, 121-140, 141-160, 161-180, 181-200, 201-220, 221-240, 241-260, 261-280, 281-300, 301-320, 321-340, 341-360, 361-380, 381-400, 401-420, 421-440, 441-460, 461-480, 481-500, 501-520, 521-540, 541-560, 561-580, 581-600, 601-620, 621-680, 681-700, 701-720, 721-740, 741-780, 781-800, 801-820, 821-840, 841-860, 861-880, 881-900, 901-920, 921-940, 941-960, 961-980, 981 to the C-terminus of the antigen.
- [00186] Peptides which comprise a variant of the invention may be a fusion protein comprising one or more amino acid residues in addition to the variant or fragment. Fusion proteins include homopolymers and heteropolymers, as described below.
- [00187] In some embodiments, the peptide comprises or consists of multiple variants, e.g., 2, 3, 4, 5, 6, 7, 8, or 9 variants of the invention. In some embodiments, the peptide comprises at least 1, at least 2, at least 3, at least 4, at least 5, at least 6, at least 7, or at least 8 variants of the invention.
- [00188] The peptide may also be a homopolymer of one variant or the peptide may be a heteropolymer which contains at least two different variants. Polymers have the advantage of increased probability for immunological reaction and, where different variants are used to make up the polymer, the ability to induce antibodies and/or T cells that react with different antigenic determinants of the antigen(s) targeted for an immune response.
- [00189] A homopolymer may comprise 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, or 150 copies of the same variant.
- [00190] A heteropolymer may comprise one or more copies of an individual variant and one or more copies of one or more different variants of the invention. The variants that form a heteropolymer may all be from the same antigen, e.g., may be from any of those in Tables 11-22

(SEQ ID NOS:_) or other antigens herein or known in the art, or may be from different antigens, preferably from infectious agents. Combinations of variants that may form a heteropolymer include, for example, Gag 545 variants EPLTSLKSLF (SEQ ID NO:_) and YPLASLKSLF (SEQ ID NO:_), or combinations of peptides from different tables in Tables 6-9 and/or Figures 1A-4 or those combinations in Tables 23-28. Heteropolymers may contain multiple copies of one or more variants.

- [00191] Thus, peptides of the invention such as heteropolymers may comprise a first variant and at least 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, or 50 other (different) variants.
- [00192] In some embodiments, the peptide comprising a variant may also comprise a number of CTL and/or HTL epitopes, e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, or 50 CTL and/or HTL epitopes.
- [00193] The CTL and/or HTL epitope and the variant of the invention may be from the same antigen of an infectious agent or from different antigens. Thus, for example, if the variant is from HIV pol, the CTL peptide and/or HTL peptide may also be from HIV pol. Alternatively, if the variant is from HIV pol, the CTL peptide and/or HTL peptide may be from another antigen such as HIV env or HIV vpr. As another example, if the variant is from HBV E6, the CTL peptide and/or HTL peptide may be from HBV E7. The CTL and/or HTL epitope and the variant of the invention may be from the same infectious agent or different infectious agents. Thus, for example, the variant may be from HIV, and the CTL and/or HTL epitope may be from HIV or may be from another infectious agent sush such as HBV, HCV, HPV, or Plasmodium falciparum.
- [00194] The CTL peptide and/or HTL peptide may be from other antigens including hepatitis B core and surface antigens (HBVc, HBVs), hepatitis C antigens, Epstein-Barr virus antigens, human immunodeficiency virus (HIV) antigens and human papilloma virus (HPV) antigens (in particular anitgens from HPV-16, HPV-18, HPV-31, HPV-33, HPV-45, HPV-52, HPV-56 and HPV-58, Mycobacterium tuberculosis and Chlamydia. Examples of suitable fungal antigens include those derived from Candida albicans, Cryptococcus neoformans, Coccidoides spp., Histoplasma spp, and Aspergillus fumigatis. Examples of suitable protozoan parasitic antigens include those derived from Plasmodium spp., including P. falciparum, Trypanosoma spp., Schistosoma spp., Leishmania spp and the like.
- [00195] Alternatively, the CTL peptide and/or HTL peptide may be from tumor-associated antigens such as but not limited to, melanoma antigens MAGE-1, MAGE-2, MAGE-3, MAGE-11, MAGE-A10, as well as BAGE, GAGE, RAGE, MAGE-C1, LAGE-1, CAG-3, DAM, MUC1, MUC2, MUC18, NY-ESO-1, MUM-1, CDK4, BRCA2, NY-LU-1, NY-LU-7, NY-LU-12,

CASP8, RAS, KIAA-2-5, SCCs, p53, p73, CEA, HER2/neu, Melan-A, gp100, tyrosinase, TRP2, gp75/TRP1, kallikrein, prostate-specific membrane antigen (PSM), prostatic acid phosphatase (PAP), prostate-specific antigen (PSA), PT1-1, 3-catenin, PRAME, Telomerase, FAK, cyclin D1 protein, NOEY2, EGF-R, SART-1, CAPB, HPVE7, p15, Folate receptor CDC27, PAGE-1, and PAGE-4.

- [00196] Examples of CTL peptides and HTL peptides are disclosed in WO 01/42270, published 14 June 2001; WO 01/41788, published 14 June 2001; WO 01/42270, published 14 June 2001; WO 01/45728, published 28 June 2001; and WO 01/41787, published 14 June 2001.
- The HTL peptide may comprise a "loosely HLA-restricted" or "promiscuous" [00197] sequence. Examples of amino acid sequences that are promiscuous include sequences from antigens such as tetanus toxoid at positions 830-843 (QYIKANSKFIGITE; SEQ ID NO: 627), Plasmodium falciparum CS protein at positions 378-398 (DIEKKIAKMEKASSVFNVVNS; SEQ ID NO: 628), and Streptococcus 18kD protein at positions 116-131 (GAVDSILGGVATYGAA; SEQ ID NO: 629). Other examples include peptides bearing a DR 1-4-7 supermotif, or either of the DR3 motifs.
- [00198] The HTL peptide may comprise a synthetic peptide such as a Pan-DR-binding epitope (e.g., a PADRE® peptide, Epimmune Inc., San Diego, CA, described, for example, in U.S. Patent Number 5,736,142), for example, having the formula aKXVAAZTLKAAa, where "X" is either cyclohexylalanine, phenylalanine, or tyrosine; "Z" is either tryptophan, tyrosine, histidine or asparagine; and "a" is either D-alanine or L-alanine (SEQ ID NO: 746). Certain pan-DR binding epitopes comprise all "L" natural amino acids; these molecules can be provided as peptides or in the form of nucleic acids that encode the peptide. See also, U.S. Patent Nos. 5,679,640 and 6,413,935.
- [00199] The peptide comprising a variant may comprise additional amino acid(s). Such additional amino acids may be Ala, Arg, Asn, Asp, Cys, Gln, Gly, Glu, His, Ile, Leu, Lys, Met, Phe, Pro, Ser, Thr, Tyr, Trp, Val, amino acid mimetics, and other unnatural amino acids such as those described below. Additional amino acids may provide for ease of linking peptides one to another, for linking variants to one another, for linking variants to CTL and/or HTL epitopes, for coupling to a carrier support or larger peptide, for modifying the physical or chemical properties of the peptide or oligopeptide, or the like. Amino acids such as Ala, Arg, Asn, Asp, Cys, Gln, Gly, Glu, His, Ile, Leu, Lys, Met, Phe,

Pro, Ser, Thr, Tyr, Trp, or Val, or the like, can be introduced at the C- and/or N-terminus of the peptide and/or can be introduced internally.

- [00200] The peptide comprising a variant may comprise an amino acid spacer(s), which may be joined to the variants, CTL epitopes, HTL epitopes, carriers, etc. within a peptide or may be joined to the peptide at the N-and/or C-terminus. Thus, spacers may be at the N-terminus or C-terminus of peptide, or may be internal such that they link or join variants, CTL epitopes, HTL epitopes, carriers, additional amino acids, and/or antigenic fragments one to the other.
- The spacer is typically comprised of one or more relatively small, neutral [00201] molecules, such as amino acids or amino acid mimetics, which are substantially uncharged under physiological conditions. The spacers are typically selected from, e.g., Ala, Gly, or other neutral spacers of nonpolar amino acids or neutral polar amino acids. It will be understood that the optionally present spacer may be composed of the same residues or may be composed of one or more different residues and thus may be a homo- or heterooligomer of spacer residues. Thus, the spacer may contain more than one Ala residue (poly-alanine) or more than one Gly residue (poly-glycine), or may contain both Ala and Gly residues, e.g., Gly, Gly-Gly-, Ser, Ser-Ser-, Gly-Ser-, Ser-Gly-, etc. When present, the spacer will usually be at least one or two residues, more usually three to six residues and sometimes 10 or more residues, e.g., 3, 4, 5, 6, 7, 8, 9, or 10, or even more residues. (Livingston, B.D. et al. Vaccine 19:4652-4660 (2000)).
- [00202] Peptides comprising a variant may comprise carrier(s) such as those well known in the art, e.g., thyroglobulin, albumins such as human serum albumin, tetanus toxoid, polyamino acids such as poly L-lysine, poly L-glutamic acid, influenza virus proteins, hepatitis B virus core protein, and the like. (See Table 29).
- [00203] In addition, the peptide comprising or consisting of a variant may be modified by terminal-NH₂ acylation, e.g., by alkanoyl (C₁-C₂₀) or thioglycolyl acetylation, terminal-carboxyl amidation, e.g., ammonia, methylamine, etc. In some instances these modifications may provide sites for linking to a support or other molecule.
- [00204] The peptides in accordance with the invention can contain modifications such as but not limited to glycosylation, side chain oxidation, biotinylation, phosphorylation, addition of a surface active material, e.g. a lipid, or can be chemically modified, e.g.,

acetylation, etc. Moreover, bonds in the peptide can be other than peptide bonds, e.g., covalent bonds, ester or ether bonds, disulfide bonds, hydrogen bonds, ionic bonds, etc.

[00205] Peptides of the present invention may contain substitutions to modify a physical property (e.g., stability or solubility) of the resulting peptide. For example, peptides may be modified by the substitution of a cysteine (C) with α -amino butyric acid ("B"). Due to its chemical nature, cysteine has the propensity to form disulfide bridges and sufficiently alter the peptide structurally so as to reduce binding capacity. Substituting α -amino butyric acid for C not only alleviates this problem, but actually improves binding and crossbinding capability in certain instances. Substitution of cysteine with α -amino butyric acid may occur at any residue of a peptide, e.g., at either anchor or non-anchor positions of a variant within a peptide, or at other positions of a peptide.

The peptides comprising a variant can comprise amino acid mimetics or unnatural [00206] amino acids, e.g. D- or L-naphylalanine; D- or L-phenylglycine; D- or L-2-thieneylalanine; D- or L-1, -2, 3, or 4-pyreneylalanine; D- or L-3 thieneylalanine; D- or L-(2-pyridinyl)alanine; D- or L-(3-pyridinyl)-alanine; D- or L-(2-pyrazinyl)-alanine; D- or L-(4-isopropyl)phenylglycine; D-(trifluoromethyl)-phenylglycine; D-(trifluoromethyl)-phenylalanine; D-pfluorophenylalanine; Dor L-ρ-biphenylphenylalanine; or L-ρmethoxybiphenylalanine; D- or L-2-indole(alkyl)alanines; and. Dor Lalkylalanines, where the alkyl group can be a substituted or unsubstituted methyl, ethyl, propyl, hexyl, butyl, pentyl, isopropyl, iso-butyl, sec-isotyl, iso-pentyl, or a non-acidic Aromatic rings of a non-natural amino acid include, e.g., thiazolyl, amino acids. thiophenyl, pyrazolyl, benzimidazolyl, naphthyl, furanyl, pyrrolyl, and pyridyl aromatic rings. Modified peptides that have various amino acid mimetics or unnatural amino acids are particularly useful, as they tend to manifest increased stability in vivo. Such peptides may also possess improved shelf-life or manufacturing properties.

[00207] Peptide stability can be assayed in a number of ways. For instance, peptidases and various biological media, such as human plasma and serum, have been used to test stability. See, e.g., Verhoef, et al., Eur. J. Drug Metab. Pharmacokinetics 11:291 (1986). Half-life of the peptides of the present invention is conveniently determined using a 25% human serum (v/v) assay. The protocol is generally as follows: Pooled human serum (Type AB, non-heat inactivated) is delipidated by centrifugation before use. The serum is then diluted to 25% with RPMI-1640 or another suitable tissue culture medium. At predetermined time intervals, a small amount of reaction solution is removed and added to

either 6% aqueous trichloroacetic acid (TCA) or ethanol. The cloudy reaction sample is cooled (4°C) for 15 minutes and then spun to pellet the precipitated serum proteins. The presence of the peptides is then determined by reversed-phase HPLC using stability-specific chromatography conditions.

[00208] As indicated above, the peptides in accordance with the invention can be a variety of lengths, and either in their neutral (uncharged) forms or in forms which are salts. The peptides in accordance with the invention can contain modifications such as glycosylation, side chain oxidation, or phosphorylation, generally subject to the condition that modifications do not destroy the biological activity of the peptides.

[00209] The peptides of the invention may be lyophylized, or may be in crystal form.

while still maintaining substantially all of the immunologic activity of the native protein. When possible, it may be desirable to optimize HLA class I binding epitopes of the invention to a length of about 8 to about 13 amino acid residues, for example, 8, 9, 10, 11, 12 or 13, preferably 8 to 11 or 9 to 10. It is to be appreciated that one or more epitopes in this size range can be comprised by a longer peptide (see the Definition Section for the term "epitope" for further discussion of peptide length). HLA class II binding epitopes are preferably optimized to a length of about 6 to about 30 amino acids in length, e.g., 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 or 30, preferably to between about 13 and about 20 residues, e.g., 13, 14, 15, 16, 17, 18, 19 or 20. Preferably, the epitopes are commensurate in size with endogenously processed pathogenderived peptides or tumor cell peptides that are bound to the relevant HLA molecules. The identification and preparation of peptides of various lengths can be carried out using the techniques described herein.

[00211] Peptides in accordance with the invention can be prepared synthetically, by recombinant DNA technology or chemical synthesis, or can be isolated from natural sources such as native tumors or pathogenic organisms. Epitopes may be synthesized individually or joined directly or indirectly in a peptide. Although the peptide will preferably be substantially free of other naturally occurring host cell proteins and fragments thereof, in some embodiments the peptides may be synthetically conjugated to be joined to native fragments or particles.

[00212] The peptides of the invention can be prepared in a wide variety of ways. For relatively short sizes, the peptides can be synthesized in solution or on a solid support in

accordance with conventional techniques. Various automatic synthesizers are commercially available and can be used in accordance with known protocols. (See, for example, Stewart & Young, Solid Phase Peptide Synthesis, 2d. ed., Pierce Chemical Co., 1984). Further, individual peptides can be joined using chemical ligation to produce larger peptides that are still within the bounds of the invention.

- [00213] Alternatively, recombinant DNA technology can be employed wherein a nucleotide sequence which encodes a peptide inserted into an expression vector, transformed or transfected into an appropriate host cell and cultivated under conditions suitable for expression. These procedures are generally known in the art, as described generally in Sambrook et al., Molecular Cloning, a Laboratory Manual, Cold Spring Harbor Press, Cold Spring Harbor, New York (1989). Thus, recombinant peptides, which comprise or consist of one or more epitopes of the invention, can be used to present the appropriate T cell epitope.
- [00214] Polynucleotides encoding each of the peptides above are also part of the invention. As appreciated by one of ordinary skill in the art, various nucleic acids will encode the same peptide due to the redundancy of the genetic code. Each of these nucleic acids falls within the scope of the present invention. This embodiment of the invention comprises DNA and RNA, and in certain embodiments a combination of DNA and RNA. It is to be appreciated that any polynucleotide that encodes a peptide in accordance with the invention falls within the scope of this invention.
- [00215] The polynucleotides encoding peptides contemplated herein can be synthesized by chemical techniques, for example, the phosphotriester method of Matteucci, et al., J. Am. Chem. Soc. 103:3185 (1981). Polynucleotides encoding peptides comprising or consisting of a variant can be made simply by substituting the appropriate and desired nucleic acid base(s) for those that encode a related (e.g., analogous) epitope.
- [00216] The polynucleotide, e.g. minigene (see below), may be produced by assembling oligonucleotides that encode the plus and minus strands of the polynucleotide, e.g. minigene. Overlapping oligonucleotides (15-100 bases long) may be synthesized, phosphorylated, purified and annealed under appropriate conditions using well known techniques. The ends of the oligonucleotides can be joined, for example, using T4 DNA ligase. A polynucleotide, e.g. minigene, encoding the peptide of the invention, can be cloned into a desired vector such as an expression vector. The coding sequence can then be provided with appropriate linkers and ligated into expression vectors commonly

available in the art, and the vectors used to transform suitable hosts to produce the desired peptide such as a fusion protein.

- [00217] A large number of such vectors and suitable host systems are known to those of skill in the art, and are commercially available. The following vectors are provided by way of example. Bacterial: pQE70, pQE60, pQE-9 (Qiagen), pBS, pD10, phagescript, psiX174, pBluescript SK, pbsks, pNH8A, pNH16a, pNH18A, pNH46A (Stratagene); ptrc99a, pKK223-3, pKK233-3, pDR540, pRIT5 (Pharmacia); pCR (Invitrogen). Eukaryotic: pWLNEO, pSV2CAT, pOG44, pXT1, pSG (Stratagene) pSVK3, pBPV, pMSG, pSVL (Pharmacia); p75.6 (valentis); pCEP (Invitrogen); pCEI (Epimmune). However, any other plasmid or vector can be used as long as it is replicable and viable in the host.
- [00218] As representative examples of appropriate hosts, there can be mentioned: bacterial cells, such as *E. coli, Bacillus subtilis, Salmonella typhimurium* and various species within the genera Pseudomonas, Streptomyces, and Staphylococcus; fungal cells, such as yeast; insect cells such as Drosophila and Sf9; animal cells such as COS-7 lines of monkey kidney fibroblasts, described by Gluzman, *Cell 23*:175 (1981), and other cell lines capable of expressing a compatible vector, for example, the C127, 3T3, CHO, HeLa and BHK cell lines or Bowes melanoma; plant cells, etc. The selection of an appropriate host is deemed to be within the scope of those skilled in the art from the teachings herein.
- [00219] Thus, the present invention is also directed to vectors, preferably expression vectors useful for the production of the peptides of the present invention, and to host cells comprising such vectors.
- [00220] Host cells are genetically engineered (transduced or transformed or transfected) with the vectors of this invention which can be, for example, a cloning vector or an expression vector. The vector can be, for example, in the form of a plasmid, a viral particle, a phage, etc. The engineered host cells can be cultured in conventional nutrient media modified as appropriate for activating promoters, selecting transformants or amplifying the polynucletides. The culture conditions, such as temperature, pH and the like, are those previously used with the host cell selected for expression, and will be apparent to the ordinarily skilled artisan.
- [00221] For expression of the peptides, the coding sequence will be provided with operably linked start and stop codons, promoter and terminator regions and usually a replication system to provide an expression vector for expression in the desired cellular host. For

example, promoter sequences compatible with bacterial hosts are provided in plasmids containing convenient restriction sites for insertion of the desired coding sequence. The resulting expression vectors are transformed into suitable bacterial hosts.

[00222] Generally, recombinant expression vectors will include origins of replication and selectable markers permitting transformation of the host cell, e.g., the ampicillin resistance gene of E. coli and S. cerevisiae TRP1 gene, and a promoter derived from a highly-expressed gene to direct transcription of a downstream structural sequence. Such promoters can be derived from operons encoding glycolytic enzymes such as 3-phosphoglycerate kinase (PGK), ∀-factor, acid phosphatase, or heat shock proteins, among others. The heterologous structural sequence is assembled in appropriate phase with translation initiation and termination sequences, and preferably, a leader sequence capable of directing secretion of translated protein into the periplasmic space or extracellular medium. Optionally, the heterologous sequence can encode a fusion protein including an N-terminal identification peptide imparting desired characteristics, e.g., stabilization or simplified purification of expressed recombinant product.

Yeast, insect or mammalian cell hosts may also be used, employing suitable vectors and control sequences. Examples of mammalian expression systems include the COS-7 lines of monkey kidney fibroblasts, described by Gluzman, Cell 23:175 (1981), and other cell lines capable of expressing a compatible vector, for example, the C127, 3T3, CHO, HeLa and BHK cell lines. Mammalian expression vectors will comprise an origin of replication, a suitable promoter and enhancer, and also any necessary ribosome binding sites, polyadenylation site, splice donor and acceptor sites, transcriptional termination sequences, and 5' flanking nontranscribed sequences. Such promoters may also be derived from viral sources, such as, e.g., human cytomegalovirus (CMV-IE promoter) or herpes simplex virus type-1 (HSV TK promoter). Nucleic acid sequences derived from the SV40 splice, and polyadenylation sites can be used to provide the required nontranscribed genetic elements.

[00224] Polynucleotides encoding peptides of the invention may also comprise a ubiquitination signal sequence, and/or a targeting sequence such as an endoplasmic reticulum (ER) signal sequence to facilitate movement of the resulting peptide into the endoplasmic reticulum.

[00225] Polynucleotides of the invention, e.g., minigenes, may be expressed in human cells. A human codon usage table can be used to guide the codon choice for each amino

acid. Such polynucleotides preferably comprise spacer amino acid residues between variants, such as those described above, or may comprise naturally-occurring flanking sequences adjacent to the variants (and/or CTL and HTL epitopes).

- [00226] The peptides of the invention can also be expressed by viral or bacterial vectors. Examples of expression vectors include attenuated viral hosts, such as vaccinia or fowlpox. As an example of this approach, vaccinia virus is used as a vector to express nucleotide sequences that encode the peptides of the invention. Vaccinia vectors and methods useful in immunization protocols are described in, e.g., U.S. Patent No. 4,722,848. Another vector is BCG (Bacille Calmette Guerin). BCG vectors are described in Stover et al., Nature 351:456-460 (1991). A wide variety of other vectors useful for therapeutic administration or immunization of the polypeptides of the invention, e.g. adeno and adeno-associated virus vectors, retroviral vectors, Salmonella typhi vectors, detoxified anthrax toxin vectors, and the like, will be apparent to those skilled in the art from the description herein. A preferred vector is Modified Vaccinia Ankara (MVA) (e.g., Bavarian Noridic (MVA-BN)).
- [00227] Standard regulatory sequences well known to those of skill in the art are preferably included in the vector to ensure expression in the human target cells. Several vector elements are desirable: a promoter with a downstream cloning site for polynucleotide, e.g., minigene insertion; a polyadenylation signal for efficient transcription termination; an E. coli origin of replication; and an E. coli selectable marker (e.g. ampicillin or kanamycin resistance). Numerous promoters can be used for this purpose, e.g., the human cytomegalovirus (hCMV) promoter. See, e.g., U.S. Patent Nos. 5,580,859 and 5,589,466 for other suitable promoter sequences. A preferred promoter is the CMV-IE promoter.
- [00228] Polynucleotides, e.g. minigenes, may comprise one or more synthetic or naturally-occurring introns in the transcribed region. The inclusion of mRNA stabilization sequences and sequences for replication in mammalian cells may also be considered for increasing polynucleotide, e.g. minigene, expression.
- [00229] In addition, the polynucleotide, e.g. minigene, may comprise immunostimulatory sequences (ISSs or CpGs). These sequences may be included in the vector, outside the polynucleotide (e.g. minigene) coding sequence to enhance immunogenicity.
- [00230] In some embodiments, a bi-cistronic expression vector which allows production of both the polynucleotide- (e.g. minigene-) encoded peptides of the invention and a second protein (e.g., one that modulates immunogenicity) can be used. Examples of proteins or

polypeptides that, if co-expressed with peptides of the invention, can enhance an immune response include cytokines (e.g., IL-2, IL-12, GM-CSF), cytokine-inducing molecules (e.g., LeIF), costimulatory molecules, or pan-DR binding proteins (PADRE® molecules, Epimmune, San Diego, CA). Helper T cell (HTL) epitopes such as PADRE® molecules can be joined to intracellular targeting signals and expressed separately from expressed peptides of the invention. Specifically decreasing the immune response by co-expression of immunosuppressive molecules (e.g. TGF-β) may be beneficial in certain diseases.

- [00231] Once an expression vector is selected, the polynucleotide, e.g. minigene, is cloned into the polylinker region downstream of the promoter. This plasmid is transformed into an appropriate bacterial strain, and DNA is prepared using standard techniques. The orientation and DNA sequence of the polynucleotide, e.g. minigene, as well as all other elements included in the vector, are confirmed using restriction mapping, DNA sequence analysis, and/or PCR analysis. Bacterial cells harboring the correct plasmid can be stored as cell banks.
- [00232] Therapeutic/prophylactic quantities of DNA can be produced for example, by fermentation in E. coli, followed by purification. Aliquots from the working cell bank are used to inoculate growth medium, and are grown to saturation in shaker flasks or a bioreactor according to well known techniques. Plasmid DNA is purified using standard bioseparation technologies such as solid phase anion-exchange resins available, e.g., from QIAGEN, Inc. (Valencia, California). If required, supercoiled DNA can be isolated from the open circular and linear forms using gel electrophoresis or other methods.
- Purified polynucleotides, e.g. minigenes, can be prepared for injection using a variety of formulations. The simplest of these is reconstitution of lyophilized polynucleotide, e.g. DNA, in sterile phosphate-buffer saline (PBS). This approach, known as "naked DNA," is currently being used for intramuscular (IM) administration in clinical trials. To maximize the immunotherapeutic effects of polynucleotide vaccines, alternative methods of formulating purified plasmid DNA may be used. A variety of such methods have been described, and new techniques may become available. Cationic lipids, glycolipids, and fusogenic liposomes can also be used in the formulation (see, e.g., WO 93/24640; Mannino & Gould-Fogerite, BioTechniques 6(7): 682 (1988); U.S. Patent No. 5,279,833; WO 91/06309; and Felgner, et al., Proc. Nat'l Acad. Sci. USA 84:7413 (1987). In addition, peptides and compounds referred to collectively as protective, interactive, non-condensing compounds (PINC) can also be complexed to purified plasmid DNA to

influence variables such as stability, intramuscular dispersion, or trafficking to specific organs or cell types.

[00234] Known methods in the art can be used to enhance delivery and uptake of a polynucleotide in vivo. For example, the polynucleotide can be complexed to polyvinylpyrrolidone (PVP), to prolong the localized bioavailability of the polynucleotide, thereby enhancing uptake of the polynucleotide by the organisum (see e.g., U.S. Patent No. 6,040,295; EP 0 465 529; WO 98/17814). PVP is a polyamide that is known to form complexes with a wide variety of substances, and is chemically and physiologically inert.

[00235] Target cell sensitization can be used as a functional assay of the expression and HLA class I presentation of polynucleotide- (e.g. minigene-) encoded peptides. For example, the polynucleotide, e.g. plasmid DNA, is introduced into a mammalian cell line that is a suitable target for standard CTL chromium release assays. The transfection method used will be dependent on the final formulation. For example, electroporation can be used for "naked" DNA, whereas cationic lipids or PVP-formulated DNA allow direct in vitro transfection. A plasmid expressing green fluorescent protein (GFP) can be cotransfected to allow enrichment of transfected cells using fluorescence activated cell sorting (FACS). The transfected cells are then chromium-51 (51Cr) labeled and used as targets for epitope-specific CTLs. Cytolysis of the target cells, detected by 51Cr release, indicates both production and HLA presentation of, polynucleotide-, e.g. minigene-, encoded variants of the invention, or peptides comprising them. Expression of HTL epitopes may be evaluated in an analogous manner using assays to assess HTL activity.

[00236] In vivo immunogenicity is a second approach for functional testing of polynucleotides, e.g. minigenes. Transgenic mice expressing appropriate human HLA proteins are immunized with the polynucleotide, e.g. DNA, product. The dose and route of administration are formulation dependent (e.g., IM for polynucleotide (e.g., naked DNA or PVP-formulated DNA) in PBS, intraperitoneal (IP) for lipid-complexed polynucleotide (e.g., DNA)). Eleven to twenty-one days after immunization, splenocytes are harvested and restimulated for one week in the presence of polynucleotides encoding each peptide being tested. Thereafter, for peptides comprising or consisting of variants, standard assays are conducted to determine if there is cytolysis of peptide-loaded, ⁵¹Cr-labeled target cells. Once again, lysis of target cells that were exposed to variants corresponding to those encoded by the polynucleotide (e.g., minigene) demonstrates polynucleotide (e.g., DNA)

vaccine function and induction of CTLs. Immunogenicity of HTL epitopes is evaluated in transgenic mice in an analogous manner.

- [00237] Alternatively, the nucleic acids can be administered using ballistic delivery as described, for instance, in U.S. Patent No. 5,204,253. Using this technique, particles comprised solely of a polynucleotide such as DNA are administered. In a further alternative embodiment for ballistic delivery, polynucleotides such as DNA can be adhered to particles, such as gold particles.
- [00238] The use of polynucleotides such as multi-epitope minigenes is described herein and in, e.g. co-pending application U.S.S.N. 09/311,784; Ishioka et al., J. Immunol. 162:3915-3925, 1999; An, L. and Whitton, J. L., J. Virol. 71:2292, 1997; Thomson, S. A. et al., J. Immunol. 157:822, 1996; Whitton, J. L. et al., J. Virol. 67:348, 1993; Hanke, R. et al., Vaccine 16:426, 1998. For example, a polynucleotide such as a multi-epitope DNA plasmid can be engineered which encodes an epitope derived from multiple regions of a infectious agent (e.g., p53, HER2/nev, MAGE-2/3, or CEA), a pan-DR binding peptide such as the PADRE® universal helper T cell epitope, and an endoplasmic reticulum-translocating signal sequence. As descibed in the sections above, a peptide/polynucleotide may also comprise/encode epitopes that are derived from other infectious agents.
- [00239] Thus, the invention includes peptides as described herein, polynucleotides encoding each of said peptides, as well as compositions comprising the peptides and polynucleotides, and includes methods for producing and methods of using the peptides, polynucleotides, and compositions, as further described below.
- [00240] Compositions. In other embodiments, the invention is directed to a composition comprising one or more peptides and/or polynucleotides of the invention and optionally another component(s).
- [00241] In some embodiments, the composition comprises or consists of multiple peptides, e.g., 2, 3, 4, 5, 6, 7, 8, or 9 peptides of the invention. In some embodiments, the composition comprises at least 2, at least 3, at least 4, at least 5, at least 6, at least 7, or at least 8 peptides of the invention. Combinations of peptides include, for example, a peptide comprising or alternatively consisting of the Gag 545 variant EPLTSLKSLF (SEQ ID NO:_) and a peptide comprising or alternatively consisting of the Gag 545 variant YPLASLKSLF (SEQ ID NO:_), or combinations of peptides from different tables in Tables 6-9 and/or Figures 1A-4.

[00242] Compositions of the invention may comprise polynucleotides encoding the above peptides and/or combinations of peptides.

- [00243] The composition can comprise at least 2, at least 3, at least 4, at least 5, at least 6, at least 7, or at least 8 peptides and/or polynucleotides selected from those described above or below. At least one of the one or more peptides can be a heteropolymer or a homopolymer. Additionally, the composition can comprise a CTL and/or HTL epitope, which can be derived from a tumor-associated antigen. The additional epitope can also be a PanDR binding molecule, (e.g., a PADRE® universal helper T cell epitope).
- [00244] Optional components include excipients, diluents, proteins such as peptides comprising a CTL epitope, and/or an HTL epitope such as a pan-DR binding peptide (e.g., a PADRE® universal helper T cell epitope), and/or a carrier, polynucleotides encoding such proteins, lipids, or liposomes, as well as other components described herein. There are numerous embodiments of compositions in accordance with the invention, such as a cocktail of one or more peptides and/or polynucleotides (e.g., minigenes); a cocktail of one or more peptides and/or polynucleotides (e.g., minigenes) and one or more CTL and/or HTL epitopes.
- [00245] Compositions may comprise one or more peptides (and/or polynucleotides such as minigenes) of the invention, along with one or more other components as described above and herein. "One or more" refers to any whole unit integer from 1-150, e.g., at least 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, or 150 peptides, polynucleotides, or other components.
- [00246] Compositions of the invention may be, for example, polynucleotides or polypeptides of the invention combined with or complexed to cationic lipid formulations; lipopeptides (e.g., Vitiello, A. et al., J. Clin. Invest. 95:341, 1995), encapsulated e.g., in poly(DL-lactide-co-glycolide) ("PLG") microspheres (see, e.g., Eldridge, et al., Molec. Immunol. 28:287-294, 1991: Alonso et al., Vaccine 12:299-306, 1994; Jones et al., Vaccine 13:675-681, 1995); peptide compositions contained in immune stimulating complexes (ISCOMS) (see, e.g., Takahashi et al., Nature 344:873-875, 1990; Hu et al., Clin Exp Immunol. 113:235-243, 1998); multiple antigen peptide systems (MAPs) (see e.g., Tam, J. P., Proc. Natl. Acad. Sci. U.S.A. 85:5409-5413, 1988; Tam, J.P., J. Immunol. Methods 196:17-32, 1996); viral, bacterial, or, fungal delivery vectors (Perkus, M. E. et

al., In: Concepts in vaccine development, Kaufmann, S. H. E., ed., p. 379, 1996; Chakrabarti, S. et al., Nature 320:535, 1986; Hu, S. L. et al., Nature 320:537, 1986; Kieny, M.-P. et al., AIDS Bio/Technology 4:790, 1986; Top, F. H. et al., J. Infect. Dis. 124:148, 1971; Chanda, P. K. et al., Virology 175:535, 1990); particles of viral or synthetic origin (e.g., Kofler, N. et al., J. Immunol. Methods. 192:25, 1996; Eldridge, J. H. et al., Sem. Hematol. 30:16, 1993; Falo, L. D., Jr. et al., Nature Med. 7:649, 1995); adjuvants (e.g., incomplete Freund's adjuvant) (Warren, H. S., Vogel, F. R., and Chedid, L. A. Annu. Rev. Immunol. 4:369, 1986; Gupta, R. K. et al., Vaccine 11:293, 1993); liposomes (Reddy, R. et al., J. Immunol. 148:1585, 1992; Rock, K. L., Immunol. Today 17:131, 1996); or, particle-absorbed cDNA or other polynucleotides of the invention (Ulmer, J. B. et al., Science 259:1745, 1993; Robinson, H. L., Hunt, L. A., and Webster, R. G., Vaccine 11:957, 1993; Shiver, J. W. et al., In: Concepts in vaccine development, Kaufmann, S. H. E., ed., p. 423, 1996; Cease, K. B., and Berzofsky, J. A., Annu. Rev. Immunol. 12:923, 1994 and Eldridge, J. H. et al., Sem. Hematol. 30:16, 1993), etc. Toxintargeted delivery technologies, also known as receptor mediated targeting, such as those of Avant Immunotherapeutics, Inc. (Needham, Massachusetts) or attached to a stress protein, e.g., HSP 96 (Stressgen Biotechnologies Corp., Victoria, BC, Canada) can also be used.

Compositions of the invention comprise polynucleotide-mediated modalities. [00247] DNA or RNA encoding one or more of the peptides of the invention can be administered to a patient. This approach is described, for instance, in Wolff et. al., Science 247:1465 (1990) as well as U.S. Patent Nos. 5,580,859; 5,589,466; 5,804,566; 5,739,118; 5,736,524; 5,679,647; and, WO 98/04720. Examples of DNA-based delivery technologies include "naked DNA", facilitated (bupivicaine, polymers (e.g., PVP, PINC, etc.), peptidemediated) delivery, cationic lipid complexes, and particle-mediated ("gene gun") or pressure-mediated delivery (see, e.g., U.S. Patent No. 5,922,687). Accordingly, peptides of the invention can be expressed by viral or bacterial vectors. Examples of expression vectors include attenuated viral hosts, such as Modified Vaccinia Ankara (MVA) (e.g., Bavarian Noridic), vaccinia or fowlpox. For example, vaccinia virus is used as a vector to express nucleotide sequences that encode the peptides of the invention. Upon introduction into an acutely or chronically infected host or into a non-infected host, the recombinant vaccinia virus expresses the immunogenic peptide, and thereby elicits an immune response. Vaccinia vectors and methods useful in immunization protocols are described in, e.g., U.S. Patent No. 4,722,848. Another vector is BCG (Bacille Calmette Guerin).

BCG vectors are described in Stover et al., Nature 351:456-460 (1991). A wide variety of other vectors useful for the administration or immunization of the peptides of the invention, e.g. adeno and adeno-associated virus vectors, alpha virus vectors, retroviral vectors, Salmonella typhi vectors, detoxified anthrax toxin vectors, and the like, are apparent to those skilled in the art from the description herein.

- [00248] In certain embodiments, components that induce T cell responses are combined with components that induce antibody responses to the target antigen of interest. A preferred embodiment of such a composition comprises class I and class II epitopes in accordance with the invention. Alternatively, a composition comprises a class I and/or class II epitope in accordance with the invention, along with a PADRE® molecule (Epimmune, San Diego, CA).
- [00249] Compositions of the invention can comprise antigen presenting cells, such as dendritic cells. Antigen presenting cells, e.g., dendritic cells, may be transfected, e.g., with a polynucleotide such as a minigene construct in accordance with the invention, in order to elicit immune responses. The peptide can be bound to an HLA molecule on the antigenresenting cell, whereby when an HLA-restricted cytotoxic T lymphocyte (CTL) is present, a receptor of the CTL binds to a complex of the HLA molecule and the peptide.
- [00250] The compositions of the invention may also comprise antiviral drugs such as interferon-α, or immune adjuvants such as IL-12, GM-CSF, etc.
- [00251] Compositions may comprise an HLA heavy chain, β₂-microglobulin, streptavidin, and/or biotin. The streptavidin may be fluorescently labeled. Compositions may comprise tetramers (see e.g., U.S. Pat. No. 5,635,363; Science 274:94-96 (1996)). A tetramer composition comprising an HLA heavy chain, β₂-microglobulin, streptavidin, and biotin. The streptavidin may be fluorescently labeled. Compositions may also comprise dimers. A dimer composition comprises as MHC molecule and an Ig molecule (see e.g., PNAS 95:7568-73 (1998)).
- [00252] In some embodiments it may be desirable to include in the compositions of the invention at least one component which primes cytotoxic T lymphocytes. Lipids have been identified as agents capable of priming CTL in vivo against viral antigens. For example, palmitic acid residues can be attached to the ε-and α- amino groups of a lysine residue and then linked, e.g., via one or more linking residues such as Gly, Gly-Gly-, Ser, Ser-Ser, or the like, to an immunogenic peptide. The lipidated peptide can then be administered either directly in a micelle or particle, incorporated into a liposome, or

emulsified in an adjuvant, e.g., incomplete Freund's adjuvant. A preferred composition comprises palmitic acid attached to ε - and α - amino groups of Lys, which is attached via linkage, e.g., Ser-Ser, to the amino terminus of the peptide.

[00253] As another example of lipid priming of CTL responses, E. coli lipoproteins, such as tripalmitoyl-S-glycerylcysteinlyseryl-serine (P₃CSS) can be used to prime virus specific CTL when covalently attached to an appropriate peptide (see, e.g., Deres, et al., Nature 342:561, 1989). Peptides of the invention can be coupled to P₃CSS, for example, and the lipopeptide administered to an individual to specifically prime a CTL response to the target antigen. Moreover, because the induction of neutralizing antibodies can also be primed with P₃CSS-conjugated epitopes, two such compositions can be combined to more effectively elicit both humoral and cell-mediated responses.

[00254] Another preferred embodiment is a composition comprising one or more peptides of the invention emulsified in IFA.

Compositions of the invention may also comprise CTL and/or HTL peptides. Such [00255]CTL and HTL peptides can be modified by the addition of amino acids to the termini of a peptide to provide for ease of linking peptides one to another, for coupling to a carrier support or larger peptide, for modifying the physical or chemical properties of the peptide or oligopeptide, or the like. Amino acids such as tyrosine, cysteine, lysine, glutamic or aspartic acid, or naturally or unnaturally occuring amino acid residues, can be introduced at the carboxyl- or amino-terminus of the peptide or oligopeptide, particularly class I peptides. However, it is to be noted that modification at the carboxyl terminus of a CTL epitope may, in some cases, alter binding characteristics of the peptide. In addition, the peptide or oligopeptide sequences can differ from the natural sequence by being modified by terminal-NH₂ acylation, e.g., by alkanoyl (C₁-C₂₀) or thioglycolyl acetylation, terminalcarboxyl amidation, e.g., ammonia, methylamine, etc. In some instances these modifications may provide sites for linking to a support or other molecule. CTL and HTL epitopes may comprise additional amino acids, such as those described above including spacers.

[00256] A further embodiment of a composition in accordance with the invention is an antigen presenting cell that comprises one or more peptides in accordance with the invention. The antigen presenting cell can be a "professional" antigen presenting cell, such as a dendritic cell. The antigen presenting cell can comprise the peptide of the invention by any means known or to be determined in the art. Such means include pulsing

of dendritic cells with one or more individual peptides, by nucleic acid administration such as ballistic nucleic acid delivery or by other techniques in the art for administration of nucleic acids, including vector-based, e.g. viral vector, delivery of nucleic acids.

- [00257] Compositions may comprise carriers. Carriers that can be used with compositions of the invention are well known in the art, and include, e.g., thyroglobulin, albumins such as human serum albumin, tetanus toxoid, polyamino acids such as poly L-lysine, poly L-glutamic acid, influenza virus proteins, hepatitis B virus core protein, and the like.
- [00258] The compositions (e.g. pharmaceutical compositions) can contain a physiologically tolerable diluent such as water, or a saline solution, preferably phosphate buffered saline. Additionally, as disclosed herein, CTL responses can be primed by conjugating peptides of the invention to lipids, such as tripalmitoyl-S-glyceryl-cysteinyl-seryl-serine (P₃CSS).
- [00259] Compositions of the invention may be pharmaceutically acceptable compositions. Pharmaceutical compositions preferably contain an immunologically effective amount of one or more peptides and/or polynucleotides of the invention, and optionally one or more other components which are pharmaceutically acceptable. A preferred composition comprises one or more peptides of the invention and IFA. A more preferred composition of the invention comprises one or more peptides of the invention, one or more peptides, and IFA.
- [00260] Upon immunization with a peptide and/or polynucleotide and/or composition in accordance with the invention, via injection (e.g., SC, ID, IM), aerosol, oral, transdermal, transmucosal, intrapleural, intrathecal, or other suitable routes, the immune system of the host responds to the vaccine by an immune response comprising the production of antibodies, CTLs and/or HTLs specific for the desired antigen(s). Consequently, the host becomes at least partially immune to subsequent exposure to the infectious agent(s), or at least partially resistant to further development of infectious agent-bearing cells and thereby derives a prophylactic or therapeutic benefit.
- [00261] Furthermore, the peptides, primers, and epitopes of the invention can be used in any desired immunization or administration regimen; e.g., as part of periodic vaccinations such as annual vaccinations as in the veterinary arts or as in periodic vaccinations as in the human medical arts, or as in a prime-boost regime wherein an inventive vector or recombinant is administered either before or after the administration of the same or of a different epitope of interest or recombinant or vector expressing such as a same or different epitope of interest (including an inventive recombinant or vector expressing such

as a same or different epitope of interest), see, e.g., U.S. Pat. Nos. 5,997,878; 6,130,066; 6,180,398; 6,267,965; and 6,348,450. An useful viral vector of the present invention is Modified Vaccinia Ankara (MVA) (e.g., Bavarian Noridic (MVA-BN)).

Recent studies have indicated that a prime-boost protocol, whereby immunization [00262] with a poxvirus recombinant expressing a foreign gene product is followed by a boost using a purified subunit preparation form of that gene product, elicits an enhanced immune response relative to the response elicited with either product alone. Human volunteers immunized with a vaccinia recombinant expressing the HIV-1 envelope glycoprotein and boosted with purified HIV-1 envelope glycoprotein subunit preparation exhibit higher HIV-1 neutralizing antibody titers than individuals immunized with just the vaccinia recombinant or purified envelope glycoprotein alone (Graham et al., J. Infect. Dis., 167:533-537 (1993); Cooney et al., Proc. Natl. Acad. Sci. USA, 90:1882-1886 (1993)). Humans immunized with two injections of an ALVAC-HIV-1 env recombinant (vCP125) failed to develop HIV specific antibodies. Boosting with purified rgp160 from a vaccinia virus recombinant resulted in detectable HIV-1 neutralizing antibodies. Furthermore, specific lymphocyte T cell proliferation to rgp160 was clearly increased by the boost with rgp160. Envelope specific cytotoxic lymphocyte activity was also detected with this vaccination regimen (Pialoux et al., AIDS Res. and Hum. Retroviruses, 11:272-381 Macaques immunized with a vaccinia recombinant expressing the simian (1995)). immunodeficiency virus (SIV) envelope glycoprotein and boosted with SIV envelope glycoprotein from a baculovirus recombinant are protected against SIV challenge (Hu et al., AID Res. and Hum. Retroviruses, 3:615-620 (1991); Hu et al., Science 255:456-459 (1992)). In the same fashion, purified HCMVgB protein can be used in prime-boost protocols with NYVAC or ALVAC-gB recombinants.

[00263] In certain embodiments, the polynucleotides are complexed in a liposome preparation. Liposomal preparations for use in the instant invention include cationic (positively charged), anionic (negatively charged) and neutral preparations. However, cationic liposomes are particularly preferred because a tight charge complex can be formed between the cationic liposome and the polyanionic nucleic acid. Cationic liposomes have been shown to mediate intracellular delivery of plasmid DNA (Felgner et al., Proc. Natl. Acad. Sci. USA 84:74137416 (1987), which is herein incorporated by reference); mRNA (Malone et al., Proc. Natl. Acad. Sci. USA 86:60776081 (1989), which is herein incorporated by reference); and purified transcription factors (Debs et al., J. Biol.

Chem. 265:1018910192 (1990), which is herein incorporated by reference), in functional form.

[00264] Cationic liposomes are readily available. For example, N-[12,3-dioleyloxy)-propyl]-N,N,N-triethylammonium (DOTMA) liposomes are particularly useful and are available under the trademark Lipofectin, from GIBCO BRL, Grand Island, N.Y. (See, also, Felgner et al., Proc. Natl Acad. Sci. USA 84:74137416 (1987)). Other commercially available liposomes include transfectace (DDAB/DOPE) and DOTAP/DOPE (Boehringer).

[00265] Other cationic liposomes can be prepared from readily available materials using techniques well known in the art. See, e.g. PCT Publication No. WO 90/11092 for a description of the synthesis of DOTAP (1,2-bis(oleoyloxy)-3-(trimethylammonio)propane) liposomes. Preparation of DOTMA liposomes is explained in the literature, see, e.g., P. Felgner et al., Proc. Natl. Acad. Sci. USA 84:74137417. Similar methods can be used to prepare liposomes from other cationic lipid materials.

[00266] Similarly, anionic and neutral liposomes are readily available, such as from Avanti Polar Lipids (Birmingham, Ala.), or can be easily prepared using readily available materials. Such materials include phosphatidyl, choline, cholesterol, phosphatidyl ethanolamine, dioleoylphosphatidyl choline (DOPC), dioleoylphosphatidyl glycerol (DOPG), dioleoylphoshatidyl ethanolamine (DOPE), among others. These materials can also be mixed with the DOTMA and DOTAP starting materials in appropriate ratios. Methods for making liposomes using these materials are well known in the art.

[00267] For example, commercially available dioleoylphosphatidyl choline (DOPC), dioleoylphosphatidyl glycerol (DOPG), and dioleoylphosphatidyl ethanolamine (DOPE) can be used in various combinations to make conventional liposomes, with or without the addition of cholesterol. Thus, for example, DOPG/DOPC vesicles can be prepared by drying 50 mg each of DOPG and DOPC under a stream of nitrogen gas into a sonication vial. The sample is placed under a vacuum pump overnight and is hydrated the following day with deionized water. The sample is then sonicated for 2 hours in a capped vial, using a Heat Systems model 350 sonicator equipped with an inverted cup (bath type) probe at the maximum setting while the bath is circulated at 15EC. Alternatively, negatively charged vesicles can be prepared without sonication to produce multilamellar vesicles or by extrusion through nucleopore membranes to produce unilamellar vesicles of discrete size. Other methods are known and available to those of skill in the art.

[00268] The liposomes can comprise multilamellar vesicles (MLVs), small unilamellar vesicles (SUVs), or large unilamellar vesicles (LUVs), with SUVs being preferred. The various liposome nucleic acid complexes are prepared using methods well known in the art. See, e.g., Straubinger et al., Methods of Immunology 101:512527 (1983). For example, MLVs containing nucleic acid can be prepared by depositing a thin film of phospholipid on the walls of a glass tube and subsequently hydrating with a solution of the material to be encapsulated. SUVs are prepared by extended sonication of MLVs to produce a homogeneous population of unilamellar liposomes. The material to be entrapped is added to a suspension of preformed MLVs and then sonicated. When using liposomes containing cationic lipids, the dried lipid film is resuspended in an appropriate solution such as sterile water or an isotonic buffer solution such as 10 mM Tris/NaCl, sonicated, and then the preformed liposomes are mixed directly with the DNA. The liposome and DNA form a very stable complex due to binding of the positively charged liposomes to the cationic DNA. SUVs find use with small nucleic acid fragments. LUVs are prepared by a number of methods, well known in the art. Commonly used methods include Ca2+-EDTA chelation (Papahadjopoulos et al., Biochim. Biophys. Acta 394:483 (1975); Wilson et al., Cell 17:77 (1979)); ether injection (Deamer, D. and Bangham, A., Biochim. Biophys. Acta 443:629 (1976); Ostro et al., Biochem. Biophys. Res. Commun. 76:836 (1977); Fraley et al., Proc. Natl. Acad. Sci. USA 76:3348 (1979)); detergent dialysis (Enoch, H. and Strittmatter, P., Proc. Natl. Acad. Sci. USA 76:145 (1979)); and reversephase evaporation (REV) (Fraley et al., J. Biol. Chem. 255:10431 (1980); Szoka, F. and Papahadjopoulos, D., Proc. Natl. Acad. Sci. USA 75:145 (1978); SchaeferRidder et al., Science 215:166 (1982)).

[00269] Generally, the ratio of DNA to liposomes will be from about 10:1 to about 1:10. Preferably, the ration will be from about 5:1 to about 1:5. More preferably, the ration will be about 3:1 to about 1:3. Still more preferably, the ratio will be about 1:1.

[00270] U.S. Patent No. 5,676,954 reports on the injection of genetic material, complexed with cationic liposome carriers, into mice. U.S. Patent Nos. 4,897,355, 4,946,787, 5,049,386, 5,459,127, 5,589,466, 5,693,622, 5,580,859, 5,703,055, and international publication no. WO 94/9469 provide cationic lipids for use in transfecting DNA into cells and mammals. U.S. Patent Nos. 5,589,466, 5,693,622, 5,580,859, 5,703,055, and international publication no. WO 94/9469 provide methods for delivering DNA-cationic lipid complexes to mammals.

Binding Affinity of Variants for HLA Molecules

[00271] As indicated herein, the large degree of HLA polymorphism is an important factor to be taken into account with the epitope-based approach to developing therapeutics and diagnostics. To address this factor, epitope selection encompassing identification of peptides capable of binding at high or intermediate affinity to multiple HLA molecules is preferably utilized, most preferably these epitopes bind at high or intermediate affinity to two or more allele-specific HLA molecules. However, in some embodiments, it is preferred that all epitopes in a given composition bind to the alleles of a single HLA supertype or a single HLA molecule.

Variants of the invention preferably include those that have an IC₅₀ or binding affinity value for a class I HLA molecule(s) of 500 nM or better (i.e., the value is ≤ 500 nM). In certain embodiments of the invention, peptides of interest have an IC₅₀ or binding affinity value for a class I HLA molecule(s) of 200 nM or better. In certain embodiments of the invention, peptides of interest, such as A1 and A24 peptides, have an IC₅₀ or binding affinity value for a class I HLA molecule(s) of 100 nM or better. If HTL epitopes are included, they preferably are HTL epitopes that have an IC₅₀ or binding affinity value for class II HLA molecules of 1000 nM or better, (i.e., the value is $\leq 1,000$ nM). For example, peptide binding is assessed by testing the capacity of a candidate peptide to bind to a purified HLA molecule in vitro. Peptides exhibiting high or intermediate affinity are then considered for further analysis. Selected peptides are generally tested on other members of the supertype family. In preferred embodiments, peptides that exhibit cross-reactive binding are then used in cellular screening analyses or vaccines.

[00273] The relationship between binding affinity for HLA class I molecules and immunogenicity of discrete peptide epitopes on bound antigens was determined for the first time by inventors at Epimmune. As disclosed in greater detail herein, higher HLA binding affinity is correlated with greater immunogenicity.

[00274] Greater immunogenicity can be manifested in several different ways. Immunogenicity corresponds to whether an immune response is elicited at all, and to the vigor of any particular response, as well as to the extent of a population in which a response is elicited. For example, a peptide might elicit an immune response in a diverse array of the population, yet in no instance produce a vigorous response. In accordance

with these principles, close to 90% of high binding peptides have been found to elicit a response and thus be "immunogenic," as contrasted with about 50% of the peptides that bind with intermediate affinity. (See, e.g., Schaeffer et al. PNAS (1988)) High affinity-binding class I peptides generally have an affinity of less than or equal to 100 nM. Moreover, not only did peptides with higher binding affinity have an enhanced probability of generating an immune response, the generated response tended to be more vigorous than the response seen with weaker binding peptides. As a result, less peptide is required to elicit a similar biological effect if a high affinity binding peptide is used rather than a lower affinity one. Thus, in some preferred embodiments of the invention, high affinity binding epitopes are used.

[00275] The correlation between binding affinity and immunogenicity was analyzed by the present inventors by two different experimental approaches (see, e.g., Sette, et al., J. Immunol. 153:5586-5592 (1994)). In the first approach, the immunogenicity of potential epitopes ranging in HLA binding affinity over a 10,000-fold range was analyzed in HLA-A*0201 transgenic mice. In the second approach, the antigenicity of approximately 100 different hepatitis B virus (HBV)-derived potential epitopes, all carrying A*0201 binding motifs, was assessed by using PBL from acute hepatitis patients. Pursuant to these approaches, it was determined that an affinity threshold value of approximately 500 nM (preferably 50 nM or less) determines the capacity of a peptide epitope to elicit a CTL response. These data are true for class I binding affinity measurements for naturally processed peptides and for synthesized T cell epitopes. These data also indicate the important role of determinant selection in the shaping of T cell responses (see, e.g., Schaeffer et al. Proc. Natl. Acad. Sci. USA 86:4649-4653 (1989)).

II (i.e., HLA DR) molecules has also been delineated (see, e.g., Southwood et al. J. Immunology 160:3363-3373 (1998), and U.S. Patent No. 6,413,527, issued July 2, 2002). In order to define a biologically significant threshold of HLA class II binding affinity, a database of the binding affinities of 32 DR-restricted epitopes for their restricting element (i.e., the HLA molecule that binds the epitope) was compiled. In approximately half of the cases (15 of 32 epitopes), DR restriction was associated with high binding affinities, i.e. binding affinity values of 100 nM or less. In the other half of the cases (16 of 32), DR restriction was associated with intermediate affinity (binding affinity values in the 100-1000 nM range). In only one of 32 cases was DR restriction associated with an IC50

of 1000 nM or greater. Thus, 1000 nM is defined as an affinity threshold associated with immunogenicity in the context of DR molecules.

[00277] The binding affinity of peptides for HLA molecules can be determined as described in Example 1, below.

Enhancing Population Coverage of the Vaccine

- [00278] The primary anchor residues of the HLA class I peptide epitope supermotifs and motifs are summarized in Tables 1-2. Allele-specific HLA molecules that are comprised by the various HLA class I supertypes are listed in Table 4. In some cases, patterns of amino acid residues are present in both a motif and a supermotif. The relationship of a particular motif and any related supermotif is indicated in the description of the individual motifs.
- [00279] By inclusion of one or more epitopes from several motifs or supermotifs in a vaccine composition, enhanced population coverage for major global ethnicities can be obtained.

Assays to Detect T-Cell Responses

[00280] Once HLA binding peptides are identified, they can be tested for the ability to elicit a T-cell response. The preparation and evaluation of motif-bearing peptides are described, e.g., in PCT publications WO 94/20127 and WO 94/03205. Briefly, peptides comprising epitopes from a particular antigen are synthesized and tested for their ability to bind to relevant HLA proteins. These assays may involve evaluation of peptide binding to purified HLA class I molecules in relation to the binding of a radioiodinated reference peptide. Alternatively, cells expressing empty class I molecules (i.e. cell surface HLA molecules that lack any bound peptide) may be evaluated for peptide binding by immunofluorescent staining and flow microfluorimetry. Other assays that may be used to evaluate peptide binding include peptide-dependent class I assembly assays and/or the inhibition of CTL recognition by peptide competition. Those peptides that bind to an HLA class I molecule, typically with an affinity of 500 nM or less, are further evaluated for their ability to serve as targets for CTLs derived from infected or immunized individuals, as well as for their capacity to induce primary in vitro or in vivo CTL

responses that can give rise to CTL populations capable of reacting with selected target cells associated with pathology.

[00281] Analogous assays are used for evaluation of HLA class II binding peptides. HLA class II motif-bearing peptides that are shown to bind, typically at an affinity of 1000 nM or less, are further evaluated for the ability to stimulate HTL responses.

[00282] Conventional assays utilized to detect T cell responses include proliferation assays, lymphokine secretion assays, direct cytotoxicity assays, and limiting dilution assays. For example, antigen-presenting cells that have been incubated with a peptide can be assayed for the ability to induce CTL responses in responder cell populations. Antigen-presenting cells can be normal cells such as peripheral blood mononuclear cells or dendritic cells. Alternatively, mutant, non-human mammalian cell lines that have been transfected with a human class I MHC gene, and that are deficient in their ability to load class I molecules with internally processed peptides, are used to evaluate the capacity of the peptide to induce in vitro primary CTL responses. Peripheral blood mononuclear cells (PBMCs) can be used as the source of CTL precursors. Antigen presenting cells are incubated with peptide, after which the peptide-loaded antigen-presenting cells are then incubated with the responder cell population under optimized culture conditions. Positive CTL activation can be determined by assaying the culture for the presence of CTLs that lyse radio-labeled target cells, either specific peptide-pulsed targets or target cells that express endogenously processed antigen from which the specific peptide was derived. Alternatively, the presence of epitope-specific CTLs can be determined by IFNy in situ ELISA.

In an embodiment of the invention, directed to diagnostics, a method has been devised which allows direct quantification of antigen-specific T cells by staining with fluorescein-labelled HLA tetrameric complexes (Altman, J. D. et al., Proc. Natl. Acad. Sci. USA 90:10330, 1993; Altman, J. D. et al., Science 274:94, 1996). Other options include staining for intracellular lymphokines, and interferon release assays or ELISPOT assays. Tetramer staining, intracellular lymphokine staining and ELISPOT assays all appear to be at least 10-fold more sensitive than more conventional assays (Lalvani, A. et al., J. Exp. Med. 186:859, 1997; Dunbar, P. R. et al., Curr. Biol. 8:413, 1998; Murali-Krishna, K. et al., Immunity 8:177, 1998). Additionally, DimerX technology can be used as a means of quantitation (see, e.g., Science 274:94-99 (1996) and Proc. Natl. Acad. Sci. 95:7568-73 (1998)).

[00284] HTL activation may also be assessed using techniques known to those in the art, such as T cell proliferation or lymphokine secretion (see, e.g. Alexander et al., Immunity 1:751-761, 1994).

[00285] Alternatively, immunization of HLA transgenic mice can be used to determine immunogenicity of peptide epitopes. Several transgenic mouse strains, e.g., mice with human A2.1, A11 (which can additionally be used to analyze HLA-A3 epitopes), and B7 alleles have been characterized. Other transgenic mice strains (e.g., transgenic mice for HLA-A1 and A24) are being developed. Moreover, HLA-DR1 and HLA-DR3 mouse models have been developed. In accordance with principles in the art, additional transgenic mouse models with other HLA alleles are generated as necessary.

[00286] Such mice can be immunized with peptides emulsified in Incomplete Freund's Adjuvant; thereafter any resulting T cells can be tested for their capacity to recognize target cells that have been peptide-pulsed or transfected with genes encoding the peptide of interest. CTL responses can be analyzed using cytotoxicity assays described above. Similarly, HTL responses can be analyzed using, e.g., T cell proliferation or lymphokine secretion assays.

Minigenes

of multiple epitopes. Nucleic acids encoding multiple epitopes are a useful embodiment of the invention; discrete peptide epitopes or polyepitopic peptides can be encoded. The epitopes to be included in a minigene are preferably selected according to the guidelines set forth in the previous section. Examples of amino acid sequences that can be included in a minigene include: HLA class I epitopes, HLA class II epitopes, a ubiquitination signal sequence, and/or a targeting sequence such as an endoplasmic reticulum (ER) signal sequence to facilitate movement of the resulting peptide into the endoplasmic reticulum. Examples of minigene constructs are shown in Tables 23-28.

[00288] The use of multi-epitope minigenes is also described in, e.g., co-pending applications U.S.S.N. 09/311,784, 09/894,018, 60/419,973, 60/415,463; Ishioka et al., J. Immunol. 162:3915-3925, 1999; An, L. and Whitton, J. L., J. Virol. 71:2292, 1997; Thomson, S. A. et al., J. Immunol. 157:822, 1996; Whitton, J. L. et al., J. Virol. 67:348, 1993; Hanke, R. et al., Vaccine 16:426, 1998. For example, a multi-epitope DNA plasmid

encoding nine dominant HLA-A*0201- and A11-restricted CTL epitopes derived from the polymerase, envelope, and core proteins of HBV and human immunodeficiency virus (HIV), a PADRE® universal helper T cell (HTL) epitope, and an endoplasmic reticulum-translocating signal sequence has been engineered. Immunization of HLA transgenic mice with this plasmid construct resulted in strong CTL induction responses against the nine CTL epitopes tested. This CTL response was similar to that observed with a lipopeptide of known immunogenicity in humans, and significantly greater than immunization using peptides in oil-based adjuvants. Moreover, the immunogenicity of DNA-encoded epitopes in vitro was also correlated with the in vitro responses of specific CTL lines against target cells transfected with the DNA plasmid. These data show that the minigene served: 1.) to generate a CTL response and 2.) to generate CTLs that recognized cells expressing the encoded epitopes. A similar approach can be used to develop minigenes encoding epitopes of an infectious agent.

for example, to create a DNA sequence encoding the selected epitopes (minigene) for expression in human cells, the amino acid sequences of the epitopes may be reverse translated. A human codon usage table can be used to guide the codon choice for each amino acid. These epitope-encoding DNA sequences may be directly adjoined, so that when translated, a continuous peptide sequence is created. However, to optimize expression and/or immunogenicity, additional elements can be incorporated into the minigene design such as spacer amino acid residues between epitopes. HLA presentation of CTL and HTL epitopes may be improved by including synthetic (e.g. poly-alanine) or naturally-occurring flanking sequences adjacent to the CTL or HTL epitopes; these larger peptides comprising the epitope(s) are within the scope of the invention. In one embodiment, spacer amino acid residues between one or more CTL and/or HTL epitopes are designed so as to minimize junctional epitopes that may result from the juxtaposition of 2 CTL and/or HTL epitopes.

[00290] The minigene sequence may be converted to DNA by assembling oligonucleotides that encode the plus and minus strands of the minigene. Overlapping oligonucleotides (30-100 bases long) may be synthesized, phosphorylated, purified and annealed under appropriate conditions using well known techniques. The ends of the oligonucleotides can be joined, for example, using T4 DNA ligase. This synthetic minigene, encoding the epitope peptide, can then be cloned into a desired expression vector.

[00291] Standard regulatory sequences well known to those of skill in the art are preferably included in the vector to ensure expression in the target cells. Several vector elements are desirable: a promoter with a downstream cloning site for minigene insertion; a polyadenylation signal for efficient transcription termination; an *E. coli* origin of replication; and an *E. coli* selectable marker (e.g. ampicillin or kanamycin resistance). Numerous promoters can be used for this purpose, e.g., the human cytomegalovirus (hCMV) CMV-IE promoter. See, e.g., U.S. Patent Nos. 5,580,859 and 5,589,466 for other suitable promoter sequences.

[00292] Optimized peptide expression and immunogenicity can be achieved by certain modifications to a minigene construct. For example, in some cases introns facilitate efficient gene expression, thus one or more synthetic or naturally-occurring introns can be incorporated into the transcribed region of the minigene. The inclusion of mRNA stabilization sequences and sequences for replication in mammalian cells may also be considered for increasing minigene expression.

[00293] Once an expression vector is selected, the minigene is cloned into the polylinker region downstream of the promoter. This plasmid is transformed into an appropriate bacterial strain, and DNA is prepared using standard techniques. The orientation and DNA sequence of the minigene, as well as all other elements included in the vector, are confirmed using restriction mapping, PCR and/or DNA sequence analysis. Bacterial cells harboring the correct plasmid can be stored as cell banks.

[00294] In addition, immunostimulatory sequences (ISSs or CpGs) appear to play a role in the immunogenicity of DNA vaccines. These sequences may be included in the vector, outside the minigene coding sequence to enhance immunogenicity.

[00295] In some embodiments, a bi-cistronic expression vector which allows production of both the minigene-encoded epitopes and a second protein (e.g., one that modulates immunogenicity) can be used. Examples of proteins or polypeptides that, if co-expressed with epitopes, can enhance an immune response include cytokines (e.g., IL-2, IL-12, GM-CSF), cytokine-inducing molecules (e.g., LeIF), costimulatory molecules, or pan-DR binding proteins (PADRE®, Epimmune, San Diego, CA). Helper T cell (HTL) epitopes such as PADRE® molecules can be joined to intracellular targeting signals and expressed separately from expressed CTL epitopes. This can be done in order to direct HTL epitopes to a cell compartment different than that of the CTL epitopes, one that provides for more efficient entry of HTL epitopes into the HLA class II pathway, thereby

improving HTL induction. In contrast to HTL or CTL induction, specifically decreasing the immune response by co-expression of immunosuppressive molecules (e.g. $TGF-\beta$) may be beneficial in certain diseases.

[00296] Therapeutic quantities of plasmid DNA can be produced for example, by fermentation in *E. coli*, followed by purification. Aliquots from the working cell bank are used to inoculate growth medium, and are grown to saturation in shaker flasks or a bioreactor according to well known techniques. Plasmid DNA is purified using standard bioseparation technologies such as solid phase anion-exchange resins available, *e.g.*, from QIAGEN, Inc. (Valencia, California). If required, supercoiled DNA can be isolated from the open circular and linear forms using gel electrophoresis or other methods.

[00297] Purified plasmid DNA can be prepared for injection using a variety of formulations. The simplest of these is reconstitution of lyophilized DNA in sterile phosphate-buffer saline (PBS). This approach, known as "naked DNA," is currently being used for intramuscular (IM) administration in clinical trials. To maximize the immunotherapeutic effects of minigene vaccines, alternative methods of formulating purified plasmid DNA may be used. A variety of such methods have been described, and new techniques may become available. Cationic lipids, glycolipids, and fusogenic liposomes can also be used in the formulation (see, e.g., WO 93/24640; Mannino & Gould-Fogerite, BioTechniques 6(7): 682 (1988); U.S. Patent No. 5,279,833; WO 91/06309; and Felgner, et al., Proc. Nat'l Acad. Sci. USA 84:7413 (1987). In addition, peptides and compounds referred to collectively as protective, interactive, non-condensing compounds (PINC) can also be complexed to purified plasmid DNA to influence variables such as stability, intramuscular dispersion, or trafficking to specific organs or cell types.

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[00298] Known methods in the art can be used to enhance delivery and uptake of a polynucleotide in vivo. For example, the polynucleotide can be complexed to polyvinylpyrrolidone (PVP), to prolong the localized bioavailability of the polynucleotide, thereby enhancing uptake of the polynucleotide by the organisum (see e.g., U.S. Patent No. 6,040,295; EP 0 465 529; WO 98/17814). PVP is a polyamide that is known to form complexes with a wide variety of substances, and is chemically and physiologically inert.

[00299] Target cell sensitization can be used as a functional assay of the expression and HLA class I presentation of minigene-encoded epitopes. For example, the plasmid DNA is introduced into a mammalian cell line that is a suitable target for standard CTL chromium release assays. The transfection method used will be dependent on the final

formulation, electroporation can be used for "naked" DNA, whereas cationic lipids or DNA:PVP compositions allow direct *in vitro* transfection. A plasmid expressing green fluorescent protein (GFP) can be co-transfected to allow enrichment of transfected cells using fluorescence activated cell sorting (FACS). The transfected cells are then chromium-51 (⁵¹Cr) labeled and used as targets for epitope-specific CTLs. Cytolysis of the target cells, detected by ⁵¹Cr release, indicates both the production and HLA presentation of, minigene-encoded CTL epitopes. Expression of HTL epitopes may be evaluated in an analogous manner using assays to assess HTL activity.

[00300] In vivo immunogenicity is a second approach for functional testing of minigene DNA formulations. Transgenic mice expressing appropriate human HLA proteins are immunized with the DNA product. The dose and route of administration are formulation dependent (e.g., IM for DNA in PBS, intraperitoneal (IP) for lipid-complexed DNA). Eleven to twenty-one days after immunization, splenocytes are harvested and restimulated for one week in the presence of peptides encoding each epitope being tested. Thereafter, for CTLs, standard assays are conducted to determine if there is cytolysis of peptide-loaded, ⁵¹Cr-labeled target cells. Once again, lysis of target cells that were exposed to epitopes corresponding to those in the minigene, demonstrates DNA vaccine function and induction of CTLs. Immunogenicity of HTL epitopes is evaluated in transgenic mice in an analogous manner.

[00301] Alternatively, the nucleic acids can be administered using ballistic delivery as described, for instance, in U.S. Patent No. 5,204,253. Using this technique, particles comprised solely of DNA are administered. In a further alternative embodiment for ballistic delivery, DNA can be adhered to particles, such as gold particles.

Vaccine Compositions

[00302] Vaccines that contain an immunologically effective amount of one or more peptides or polynucleotides of the invention are a further embodiment of the invention. The peptides can be delivered by various means or formulations, all collectively referred to as "vaccine" compositions. Such vaccine compositions, and/or modes of administration, can include, for example, naked DNA, DNA formulated with PVP, DNA in cationic lipid formulations; lipopeptides (e.g., Vitiello, A. et al., J. Clin. Invest. 95:341, 1995), DNA or peptides, encapsulated e.g., in poly(DL-lactide-co-glycolide) ("PLG") microspheres (see, e.g., Eldridge, et al., Molec. Immunol. 28:287-294, 1991: Alonso et al.,

Vaccine 12:299-306, 1994; Jones et al., Vaccine 13:675-681, 1995); peptide compositions contained in immune stimulating complexes (ISCOMS) (see, e.g., Takahashi et al., Nature 344:873-875, 1990; Hu et al., Clin Exp Immunol. 113:235-243, 1998); multiple antigen peptide systems (MAPs) (see e.g., Tam, J. P., Proc. Natl. Acad. Sci. U.S.A. 85:5409-5413, 1988; Tam, J.P., J. Immunol. Methods 196:17-32, 1996); viral, bacterial, or, fungal delivery vectors (Perkus, M. E. et al., In: Concepts in vaccine development, Kaufmann, S. H. E., ed., p. 379, 1996; Chakrabarti, S. et al., Nature 320:535, 1986; Hu, S. L. et al., Nature 320:537, 1986; Kieny, M.-P. et al., AIDS Bio/Technology 4:790, 1986; Top, F. H. et al., J. Infect. Dis. 124:148, 1971; Chanda, P. K. et al., Virology 175:535, 1990); particles of viral or synthetic origin (e.g., Kofler, N. et al., J. Immunol. Methods. 192:25, 1996; Eldridge, J. H. et al., Sem. Hematol. 30:16, 1993; Falo, L. D., Jr. et al., Nature Med. 7:649, 1995); adjuvants (e.g., incomplete freund's advjuvant) (Warren, H. S., Vogel, F. R., and Chedid, L. A. Annu. Rev. Immunol. 4:369, 1986; Gupta, R. K. et al., Vaccine 11:293, 1993); liposomes (Reddy, R. et al., J. Immunol. 148:1585, 1992; Rock, K. L., Immunol. Today 17:131, 1996); or, particle-absorbed DNA (Ulmer, J. B. et al., Science 259:1745, 1993; Robinson, H. L., Hunt, L. A., and Webster, R. G., Vaccine 11:957, 1993; Shiver, J. W. et al., In: Concepts in vaccine development, Kaufmann, S. H. E., ed., p. 423, 1996; Cease, K. B., and Berzofsky, J. A., Annu. Rev. Immunol. 12:923, 1994 and Eldridge, J. H. et al., Sem. Hematol. 30:16, 1993), etc. Toxin-targeted delivery technologies, also known as receptor mediated targeting, such as those of Avant Immunotherapeutics, Inc. (Needham, Massachusetts) or attached to a stress protein, e.g., HSP 96 (Stressgen Biotechnologies Corp., Victoria, BC, Canada) can also be used.

[00303] Vaccines of the invention comprise nucleic acid mediated modalities. DNA or RNA encoding one or more of the peptides of the invention can be administered to a patient. This approach is described, for instance, in Wolff et. al., Science 247:1465 (1990) as well as U.S. Patent Nos. 5,580,859; 5,589,466; 5,804,566; 5,739,118; 5,736,524; 5,679,647; and, WO 98/04720. Examples of DNA-based delivery technologies include "naked DNA", facilitated (bupivicaine, polymers (e.g., PVP), peptide-mediated) delivery, cationic lipid complexes, and particle-mediated ("gene gun") or pressure-mediated delivery (see, e.g., U.S. Patent No. 5,922,687). Accordingly, peptide vaccines of the invention can be expressed by viral or bacterial vectors. Examples of expression vectors include attenuated viral hosts, such as vaccinia or fowlpox. For example, vaccinia virus is used as a vector to express nucleotide sequences that encode the peptides of the invention

(e.g., MVA). Upon introduction into an acutely or chronically infected host or into a non-infected host, the recombinant vaccinia virus expresses the immunogenic peptide, and thereby elicits an immune response. Vaccinia vectors and methods useful in immunization protocols are described in, e.g., U.S. Patent No. 4,722,848. Another vector is BCG (Bacille Calmette Guerin). BCG vectors are described in Stover et al., Nature 351:456-460 (1991). A wide variety of other vectors useful for therapeutic administration or immunization of the peptides of the invention, e.g. adeno and adeno-associated virus vectors, alpha virus vectors, retroviral vectors, Salmonella typhi vectors, detoxified anthrax toxin vectors, and the like, are apparent to those skilled in the art from the description herein.

[00304] Furthermore, vaccines in accordance with the invention can comprise one or more peptides of the invention. Accordingly, a peptide can be present in a vaccine individually; alternatively, the peptide can exist as a homopolymer comprising multiple copies of the same peptide, or as a heteropolymer of various peptides. Polymers have the advantage of increased probability for immunological reaction and, where different peptide epitopes are used to make up the polymer, the ability to induce antibodies and/or T cells that react with different antigenic determinants of the antigen targeted for an immune response. The composition may be a naturally occurring region of an antigen or can be prepared, e.g., recombinantly or by chemical synthesis.

[00305] Carriers that can be used with vaccines of the invention are well known in the art, and include, e.g., thyroglobulin, albumins such as human serum albumin, tetanus toxoid, polyamino acids such as poly L-lysine, poly L-glutamic acid, influenza virus proteins, hepatitis B virus core protein, and the like. The vaccines can contain a physiologically tolerable diluent such as water, or a saline solution, preferably phosphate buffered saline. Generally, the vaccines also include an adjuvant. Adjuvants such as incomplete Freund's adjuvant, aluminum phosphate, aluminum hydroxide, or alum are examples of materials well known in the art. Additionally, as disclosed herein, CTL responses can be primed by conjugating peptides of the invention to lipids, such as tripalmitoyl-S-glyceryl-cysteinyl-seryl-serine (P₃CSS).

[00306] Upon immunization with a peptide composition in accordance with the invention, via injection (e.g., SC, ID, IM), aerosol, oral, transdermal, transmucosal, intrapleural, intrathecal, or other suitable routes, the immune system of the host responds to the vaccine by producing antibodies, CTLs and/or HTLs specific for the desired antigen.

Consequently, the host becomes at least partially immune to subsequent exposure to the infectious agent, and thereby derives a prophylactic or therapeutic benefit.

[00307] In certain embodiments, components that induce T cell responses are combined with components that induce antibody responses to the target antigen of interest. A preferred embodiment of such a composition comprises class I and class II epitopes in accordance with the invention. Alternatively, a composition comprises a class I and/or class II epitope in accordance with the invention, along with a PADRE® molecule (Epimmune, San Diego, CA).

[00308] Vaccines of the invention can comprise antigen presenting cells, such as dendritic cells, as a vehicle to present peptides of the invention. For example, dendritic cells are transfected, e.g., with a minigene construct in accordance with the invention, in order to elicit immune responses. Minigenes are discussed in greater detail in a following section. Vaccine compositions can be created in vitro, following dendritic cell mobilization and harvesting, whereby loading of dendritic cells occurs in vitro.

[00309] The vaccine compositions of the invention may also be used in combination with antiviral drugs such as interferon-α, or immune adjuvants such as IL-12, GM-CSF, etc.

[00310] Preferably, the following principles are utilized when selecting epitope(s) and/or analogs for inclusion in a vaccine, either peptide-based or nucleic acid-based formulations. Exemplary variants that may be utilized in a vaccine to treat or prevent infectious agent-mediated disease are set out in Tables 6-9 and Figures 1A-4. Each of the following principles can be balanced in order to make the selection. When multiple epitopes are to be used in a vaccine, the epitopes may be, but need not be, contiguous in sequence in the native antigen from which the epitopes are derived. Such multiple epitotes can refer to the order of epitopes within a peptide, or to the selection of epitopes that come from the same reagion, for use in either individual peptides or in a multi-epitopic peptide.

- 1.) Variants are selected which, upon administration, mimic immune responses that have been observed to be correlated with prevention or clearance of infectious disease. For HLA Class I, this generally includes 3-7 variants from at least one infectious agent or antigen thereof.
- 2.) Variants are selected that have the requisite binding affinity established to be correlated with immunogenicity: for HLA Class I an IC₅₀ of 500 nM or less, or for Class II an IC₅₀ of 1000 nM or less. For HLA Class I it is presently preferred to select a peptide having an IC₅₀ of 200 nM or less, as this is believed to better correlate not only to induction of an immune response, but to *in vitro* tumor cell killing as well. For HLA A1 and A24, it is especially preferred to select a peptide having an IC₅₀ of 100 nM or less.

3.) Supermotif bearing-variants, or a sufficient array of allele-specific motif-bearing variants, are selected to give broad population coverage. In general, it is preferable to have at least 80% population coverage. A Monte Carlo analysis, a statistical evaluation known in the art, can be employed to assess the breadth of population coverage.

- 4.) Of particular relevance are "nested epitopes." Nested epitopes occur where at least two epitopes overlap in a given peptide sequence. For example, a nested epitope can be a fragment of an antigen from a region that contains multiple epitopes that are overleapping, or one epitope that is completely encompassed by another, e.g., A2 peptides MAGE3.159 and MAGE3.160 are nested epitopes. A peptide comprising "transcendent nested epitopes" is a peptide that has both HLA class I and HLA class II epitopes in it. When providing nested epitopes, it is preferable to provide a sequence that has the greatest number of epitopes per provided sequence. Preferably, one avoids providing a peptide that is any longer than the amino terminus of the amino terminal epitope and the carboxyl terminus of the carboxyl terminal epitope in the peptide. When providing a sequence comprising nested epitopes, it is important to evaluate the sequence in order to insure that it does not have pathological or other deleterious biological properties; this is particularly relevant for vaccines directed to infectious organisms.
- 5.) If a protein with multiple epitopes or a polynucleotide (e.g., minigene) is created, an objective is to generate the smallest peptide that encompasses the epitopes of interest. This principle is similar, if not the same as that employed when selecting a peptide comprising nested epitopes. However, with an artificial peptide comprising multipe epitopes, the size minimization objective is balanced against the need to integrate any spacer sequences between epitopes in the polyepitopic protein. Spacer amino acid residues can be introduced to avoid junctional epitopes (an epitope recognized by the immune system, not present in the target antigen, and only created by the man-made juxtaposition of epitopes), or to facilitate cleavage between epitopes and thereby enhance epitope presentation. Junctional epitopes are generally to be avoided because the recipient may generate an immune response to that non-native epitope. Of particular concern is a junctional epitope that is a "dominant epitope." A dominant epitope may lead to such a zealous response that immune responses to other epitopes are diminished or suppressed.
- [00311] The principles are the same, except junctional epitopes applies to the sequences surrounding the epitope. One must also take care with other sequences in construct to avoid immune response.

T CELL PRIMING MATERIALS

[00312] In some embodiments it may be desirable to include in the pharmaceutical compositions of the invention at least one component which primes cytotoxic T

lymphocytes. Lipids have been identified as agents capable of facilitating the priming in vitro CTL response against viral antigens. For example, palmitic acid residues can be attached to the ε -and α - amino groups of a lysine residue and then linked to an immunogenic peptide. One or more linking moieties can be used such as Gly, Gly-Gly-, Ser, Ser-Ser, or the like. The lipidated peptide can then be administered directly in a micelle or particle, incorporated into a liposome, or emulsified in an adjuvant, e.g., incomplete Freund's adjuvant. A preferred immunogenic composition comprises palmitic acid attached to ε - and α - amino groups of Lys via a linking moiety, e.g., Ser-Ser, added to the amino terminus of an immunogenic peptide.

[00313] In another embodiment of lipid-facilitated priming of CTL responses, *E. coli* lipoproteins, such as tripalmitoyl-S-glyceryl-cysteinyl-seryl-serine (P₃CSS) can be used to prime CTL when covalently attached to an appropriate peptide. (See, e.g., Deres, et al., Nature 342:561, 1989). Thus, peptides of the invention can be coupled to P₃CSS, and the lipopeptide administered to an individual to specifically prime a CTL response to the target antigen. Moreover, because the induction of neutralizing antibodies can also be primed with P₃CSS-conjugated epitopes, two such compositions can be combined to elicit both humoral and cell-mediated responses.

DENDRITIC CELLS PULSED WITH CTL AND/OR HTL PEPTIDES

[00314] An embodiment of a vaccine composition in accordance with the invention comprises ex vivo administration of a cocktail of epitope-bearing peptides to PBMC, or isolated DC therefrom, from the patient's blood. A pharmaceutical to facilitate harvesting of DC can be used, such as ProgenipoietinTM (Monsanto, St. Louis, MO) or GM-CSF/IL-4. After pulsing the DC with peptides and prior to reinfusion into patients, the DC are washed to remove unbound peptides. In this embodiment, a vaccine comprises peptide-pulsed DCs which present the pulsed peptide epitopes in HLA molecules on their surfaces.

[00315] The DC can be pulsed ex vivo with a cocktail of peptides, some of which stimulate CTL responses to one or more antigens of interest, e.g., antigens from infectious agents such as HIV env, HIV pol, HIV gag, HIV vpu, HBV and/or the antigens in Tables 11-22, or otherwise described herein or know in the art. Optionally, a helper T cell (HTL) peptide such as PADRE®, can be included to facilitate the CTL response. Thus, a vaccine in accordance with the invention comprising epitopes from an infectious agent is used to

treat or prevent disease mediated by these agents in patients. A vaccine can be used prior to, during, or following other therapies including, for example, antibiotic therepy, antiviral therapy (e.g., highly active antiretroviral therapy (HAART) in the case of HIV-AIDS), antibody therapy, cancer therapy, and adjunct thereapy, whereupon the vaccine provides descreased morbidity, increased disease free survival and overall survival in recipients.

DIAGNOSTIC AND PROGNOSTIC USES

- [00316] In one embodiment of the invention, HLA class I and class II binding peptides can be used as reagents to evaluate an immune response. Preferably, the following principles are utilized when selecting a variant(s) for diagnostic, prognostic and similar uses. Potential principles include having the binding affinities described earlier, and/or matching the HLA-motif/supermotif of a peptide with the HLA-type of a patient.
- [00317] The evaluated immune response can be induced by any immunogen. For example, the immunogen may result in the production of antigen-specific CTLs or HTLs that recognize the peptide epitope(s) employed as the reagent. Thus, a peptide of the invention may or may not be used as the immunogen. Assay systems that can be used for such analyses include tetramer-based protocols (e.g., DimerX technology (see, e.g., Science 274:94-99 (1996) and Proc. Natl. Acad. Sci. 95:7568-73 (1998)), staining for intracellular lymphokines, interferon release assays, or ELISPOT assays.
- [00318] For example, following exposure to a putative immunogen, a peptide of the invention can be used in a tetramer staining assay to assess peripheral blood mononuclear cells for the presence of any antigen-specific CTLs. The HLA-tetrameric complex is used to directly visualize antigen-specific CTLs and thereby determine the frequency of such antigen-specific CTLs in a sample of peripheral blood mononuclear cells (see, e.g., Ogg et al., Science 279:2103-2106, 1998; and Altman et al., Science 174:94-96, 1996).
- [00319] A tetramer reagent comprising a peptide of the invention is generated as follows: A peptide that binds to an HLA molecule is refolded in the presence of the corresponding HLA heavy chain and β₂-microglobulin to generate a trimolecular complex. The complex is biotinylated at the carboxyl terminal end of the HLA heavy chain, at a site that was previously engineered into the protein. Tetramer formation is then induced by adding streptavidin. When fluorescently labeled streptavidin is used, the tetrameric complex is

used to stain antigen-specific cells. The labeled cells are then readily identified, e.g., by flow cytometry. Such procedures are used for diagnostic or prognostic purposes; the cells identified by the procedure can be used for therapeutic purposes.

- [00320] Peptides of the invention are also used as reagents to evaluate immune recall responses. (see, e.g., Bertoni et al., J. Clin. Invest. 100:503-513, 1997 and Penna et al., J. Exp. Med. 174:1565-1570, 1991.) For example, a PBMC sample from an individual expressing a disease-associated antigen (e.g. an antigen from an infectious agent) can be analyzed for the presence of antigen-specific CTLs or HTLs using specific peptides. A blood sample containing mononuclear cells may be evaluated by cultivating the PBMCs and stimulating the cells with a peptide of the invention. After an appropriate cultivation period, the expanded cell population may be analyzed, for example, for CTL or for HTL activity.
- [00321] Thus, the peptides can be used to evaluate the efficacy of a vaccine. PBMCs obtained from a patient vaccinated with an immunogen may be analyzed by methods such as those described herein. The patient is HLA typed, and peptide epitopes that are bound by the HLA molecule(s) present in that patient are selected for analysis. The immunogenicity of the vaccine is indicated by the presence of CTLs and/or HTLs directed to epitopes present in the vaccine.
- [00322] The peptides of the invention may also be used to make antibodies, using techniques well known in the art (see, e.g. Current Protocols in Immunology, Wiley/Greene, NY; and Antibodies A Laboratory Manual Harlow, Harlow and Lane, Cold Spring Harbor Laboratory Press, 1989). Such antibodies are useful as reagents to determine the presence of disease-associated antigens. Antibodies in this category include those that recognize a peptide when bound by an HLA molecule, i.e., antibodies that bind to a peptide-MHC complex.

ADMINISTRATION FOR THERAPEUTIC OR PROPHYLACTIC PURPOSES

[00323] The peptides and polynucleotides of the present invention, including cells and compositions comprising them, are useful for administration to mammals, particularly humans, to treat and/or prevent infection by an infectious agent such as HIV, HBV, HCV, HPV, Plasmodium falciparum and other agents described herein or known in the art. Vaccine compositions containing the peptides of the invention are administered to a

patient infected with a particular infectious agent or to an individual susceptible to, or otherwise at risk for, infection with such an agent to elicit an immune response against antigens of that agent and thus enhance the patient's own immune response capabilities. Where susceptible individuals are identified prior to infection, the composition can be targeted to them, thus minimizing the need for administration to a larger population.

- [00324] In therapeutic applications, peptide and/or nucleic acid compositions are administered to a patient in an amount sufficient to elicit an effective immune response to the infectious agent antigen and to thereby cure, arrest or slow symptoms and/or complications. An amount adequate to accomplish this is defined as "therapeutically effective dose." Amounts effective for this use will depend on, e.g., the particular composition administered, the manner of administration, the stage and severity of the disease being treated, the weight and general state of health of the patient, and the judgment of the prescribing physician.
- [00325] The vaccine compositions of the invention can be used purely as prophylactic agents. Generally the dosage for an initial prophylactic immunization generally occurs in a unit dosage range where the lower value is about 1, 5, 50, 500, or 1000 µg of peptide and the higher value is about 10,000; 20,000; 30,000; or 50,000 µg of peptide. Dosage values for a human typically range from about 500 µg to about 50,000 µg of peptide per 70 kilogram patient. This is followed by boosting dosages of between about 1.0 µg to about 50,000 µg of peptide, administered at defined intervals from about four weeks to six months after the initial administration of vaccine. The immunogenicity of the vaccine may be assessed by measuring the specific activity of CTL and HTL obtained from a sample of the patient's blood.
- [00326] As noted above, peptides comprising CTL and/or HTL epitopes of the invention induce immune responses when presented by HLA molecules and contacted with a CTL or HTL specific for an epitope comprised by the peptide. The manner in which the peptide is contacted with the CTL or HTL is not critical to the invention. For instance, the peptide can be contacted with the CTL or HTL either in vitro or in vivo. If the contacting occurs in vivo, peptide can be administered directly, or in other forms/vehicles, e.g., DNA vectors encoding one or more peptides, viral vectors encoding the peptide(s), liposomes, antigen presenting cells such as dendritic cells, and the like.
- [00327] Accordingly, for pharmaceutical compositions of the invention in the form of peptides or polypeptides, the peptides or polypeptides can be administered directly. Alternatively, the peptide/polypeptides can be administered indirectly presented on APCs, or as DNA encoding them. Furthermore, the peptides or DNA encoding them can be administered individually or as fusions of one or more peptide sequences.
- [00328] For therapeutic use, administration should generally begin at the first diagnosis of infectious agent-related disease. This is followed by boosting doses at least until symptoms are

substantially abated and for a period thereafter. In chronic disease states, loading doses followed by boosting doses may be required.

[00329] The dosage for an initial therapeutic immunization generally occurs in a unit dosage range where the lower value is about 1, 5, 50, 500, or 1,000 μg of peptide and the higher value is about 10,000; 20,000; 30,000; or 50,000 μg of peptide. Dosage values for a human typically range from about 500 μg to about 50,000 μg of peptide per 70 kilogram patient. Boosting dosages of between about 1.0 μg to about 50,000 μg of peptide, administered pursuant to a boosting regimen over weeks to months, can be administered depending upon the patient's response and condition. Patient response can be determined by measuring the specific activity of CTL and HTL obtained from the patient's blood.

[00330] In certain embodiments, peptides and compositions of the present invention are used in serious disease states. In such cases, as a result of the minimal amounts of extraneous substances and the relative nontoxic nature of the peptides, it is possible and may be desirable to administer substantial excesses of these peptide compositions relative to these stated dosage amounts.

[00331] For treatment of chronic disease, a representative dose is in the range disclosed above, namely where the lower value is about 1, 5, 50, 500, or 1,000 µg of peptide and the higher value is about 10,000; 20,000; 30,000; or 50,000 µg of peptide, preferably from about 500 µg to about 50,000 µg of peptide per 70 kilogram patient. Initial doses followed by boosting doses at established intervals, e.g., from four weeks to six months, may be required, possibly for a prolonged period of time to effectively immunize an individual. In the case of chronic disease, administration should continue until at least clinical symptoms or laboratory tests indicate that the disease has been eliminated or substantially abated, and for a follow-up period thereafter. The dosages, routes of administration, and dose schedules are adjusted in accordance with methodologies known in the art.

[00332] The pharmaceutical compositions for therapeutic treatment are intended for parenteral, topical, oral, intrathecal, or local administration. Preferably, the pharmaceutical compositions are administered parentally, e.g., intravenously, subcutaneously, intradermally, or intramuscularly.

[00333] Thus, in a preferred embodiment the invention provides compositions for parenteral administration which comprise a solution of the immunogenic peptides dissolved or suspended in an acceptable carrier, preferably an aqueous carrier. A variety of aqueous carriers may be used, e.g., water, buffered water, 0.8% saline, 0.3% glycine, hyaluronic acid and the like. These compositions may be sterilized by conventional, well known sterilization techniques, or may be sterile filtered. The resulting aqueous solutions may be packaged for use as is, or lyophilized, the lyophilized preparation being combined with a sterile solution prior to administration. The compositions may contain pharmaceutically acceptable auxiliary substances or pharmaceutical excipients as may be required to approximate physiological conditions, such as pH-adjusting and

buffering agents, tonicity adjusting agents, wetting agents, preservatives, and the like, for example, sodium acetate, sodium lactate, sodium chloride, potassium chloride, calcium chloride, sorbitan monolaurate, triethanolamine oleate, etc.

[00334] The concentration of peptides of the invention in the pharmaceutical formulations can vary widely, *i.e.*, from less than about 0.1%, usually at or at least about 2% to as much as 20% to 50% or more by weight, and will be selected primarily by fluid volumes, viscosities, *etc.*, in accordance with the particular mode of administration selected.

[00335] A human unit dose form of the peptide composition is typically included in a pharmaceutical composition that also comprises a human unit dose of an acceptable carrier, preferably an aqueous carrier, and is administered in a volume of fluid that is known by those of skill in the art to be used for administration of such compositions to humans (see, e.g., Remington's Pharmaceutical Sciences, 17th Edition, A. Gennaro, Editor, Mack Publishing Co., Easton, Pennsylvania, 1985).

The peptides of the invention can also be administered via liposomes, which serve to [00336] target the peptides to a particular tissue, such as lymphoid tissue, or to target selectively to infected cells, as well as to increase the half-life of the peptide composition. Liposomes include emulsions, foams, micelles, insoluble monolayers, liquid crystals, phospholipid dispersions, lamellar layers and the like. In these preparations, the peptide to be delivered is incorporated as part of a liposome, alone or in conjunction with a molecule which binds to a receptor prevalent among lymphoid cells (such as monoclonal antibodies which bind to the CD45 antigen) or with other therapeutic or immunogenic compositions. Thus, liposomes either filled or decorated with a desired peptide of the invention can be directed to the site of lymphoid cells, where the liposomes then deliver the peptide compositions. Liposomes for use in accordance with the invention are formed from standard vesicle-forming lipids, which generally include neutral and negatively charged phospholipids and a sterol, such as cholesterol. The selection of lipids is generally guided by consideration of, e.g., liposome size, acid lability and stability of the liposomes in the blood stream. A variety of methods are available for preparing liposomes, as described in, e.g., Szoka, et al., Ann. Rev. Biophys. Bioeng. 9:467 (1980), and U.S. Patent Nos. 4,235,871, 4,501,728, 4,837,028, and 5,019,369.

[00337] For targeting compositions of the invention to cells of the immune system, a ligand can be incorporated into the liposome, e.g., antibodies or fragments thereof specific for cell surface determinants of the desired immune system cells. A liposome suspension containing a peptide may be administered intravenously, locally, topically, etc. in a dose which varies according to, inter alia, the manner of administration, the peptide being delivered, and the stage of the disease being treated.

[00338] For solid compositions, conventional nontoxic solid carriers may be used which include, for example, pharmaceutical grades of mannitol, lactose, starch, magnesium stearate, sodium saccharin, talcum, cellulose, glucose, sucrose, magnesium carbonate, and the like. For oral administration, a pharmaceutically acceptable nontoxic composition is formed by incorporating any of the normally employed excipients, such as those carriers previously listed, and generally 10-95% of active ingredient, that is, one or more peptides of the invention, often at a concentration of 25%-75%.

[00339] For aerosol administration, the immunogenic peptides are preferably supplied in finely divided form, along with a surfactant and propellant. Typical percentages of peptides are 0.01%-20% by weight, often 1%-10%. The surfactant must, of course, be pharmaceutically acceptable, and preferably soluble in the propellant. Representative of such agents are the esters or partial esters of fatty acids containing from 6 to 22 carbon atoms, such as caproic, octanoic, lauric, palmitic, stearic, linoleic, linolenic, olesteric and oleic acids with an aliphatic polyhydric alcohol or its cyclic anhydride. Mixed esters, such as mixed or natural glycerides may be employed. The surfactant may constitute 0.1%-20% by weight of the composition, preferably 0.25-5%. The balance of the composition is ordinarily propellant, although an atomizer may be used in which no propellant is necessary and other percentages are adjusted accordingly. A carrier can also be included, e.g., lecithin for intranasal delivery.

Antigenic peptides of the invention have been used to elicit a CTL and/or HTL response ex vivo, as well. The resulting CTLs or HTLs can be used to treat chronic infections, or tumors in patients that do not respond to other conventional forms of therapy, or who do not respond to a therapeutic peptide or nucleic acid vaccine in accordance with the invention. Ex vivo CTL or HTL responses to a particular antigen (infectious or tumor-associated) are induced by incubating in tissue culture the patient's, or genetically compatible, CTL or HTL precursor cells together with a source of antigen-presenting cells (APC), such as dendritic cells, and the appropriate immunogenic peptide. After an appropriate incubation time (typically about 7-28 days), in which the precursor cells are activated and expanded into effector cells, the cells are infused back into the patient, where they will destroy (CTL) or facilitate destruction (HTL) of their specific target cell (an infected cell or a tumor cell).

KITS

[00341] The peptide and nucleic acid compositions of this invention can be provided in kit form together with instructions for vaccine administration. Typically the kit would include desired composition(s) of the invention in a container, preferably in unit dosage form and instructions for administration. For example, a kit would include an APC, such

as a dendritic cell, previously exposed to and now presenting peptides of the invention in a container, preferably in unit dosage form together with instructions for administration. An alternative kit would include a minigene construct with desired nucleic acids of the invention in a container, preferably in unit dosage form together with instructions for administration. Lymphokines such as IL-2 or IL-12 may also be included in the kit. Other kit components that may also be desirable include, for example, a sterile syringe, booster dosages, and other desired excipients.

[00342] The invention will be described in greater detail by way of specific examples. The following examples are offered for illustrative purposes, and are not intended to limit the invention in any manner. Those of skill in the art will readily recognize a variety of non-critical parameters that can be changed or modified to yield alternative embodiments in accordance with the invention.

EXAMPLES

EXAMPLE 1. HLA CLASS I AND CLASS II BINDING ASSAYS

- [00343] The following example of peptide binding to HLA molecules demonstrates quantification of binding affinities of HLA class I and class II peptides. Binding assays can be performed with peptides that are either motif-bearing or not motif-bearing.
- [00344] Cell lysates were prepared and HLA molecules purified in accordance with disclosed protocols (Sidney et al., Current Protocols in Immunology 18.3.1 (1998); Sidney, et al., J. Immunol. 154:247 (1995); Sette, et al., Mol. Immunol. 31:813 (1994)). The cell lines used as sources of HLA molecules and the antibodies used for the extraction of the HLA molecules from the cell lysates are also described in these publications and are well known in the art.
- [00345] Epstein-Barr virus (EBV)-transformed homozygous cell lines, fibroblasts, CIR, or 721.221-transfectants were used as sources of HLA class I molecules. These cells were cultured in RPMI 1640 medium supplemented with 2mM L-glutamine (GIBCO, Grand Island, NY), 50µM 2-ME, 100µg/ml of streptomycin, 100U/ml of penicillin (Irvine Scientific) and 10% heat-inactivated FCS (Irvine Scientific, Santa Ana, CA).
- [00346] Cell lysates were prepared as follows. Briefly, cells were lysed at a concentration of 10⁸ cells/ml in 50 mM Tris-HCl, pH 8.5, containing 1% Nonidet P-40 (Fluka

Biochemika, Buchs, Switzerland), 150 mM NaCl, 5 mM EDTA, and 2 mM PMSF. Lysates were cleared of debris and nuclei by centrifugation at 15,000 x g for 30min.

Were passed twice through two pre-columns of inactivated Sepharose CL4-B and protein A-Sepharose. Next, the lysate was passed over a column of Sepharose CL-4B beads coupled to an appropriate antibody. The anti-HLA column was then washed with 10-column volumes of 10mM Tris-HCL, pH 8.0, in 1% NP-40, PBS, 2-column volumes of PBS, and 2-column volumes of PBS containing 0.4% n-octylglucoside. Finally, MHC molecules were eluted with 50mM diethylamine in 0.15M NaCl containing 0.4% n-octylglucoside, pH 11.5. A 1/25 volume of 2.0M Tris, pH 6.8, was added to the eluate to reduce the pH to ~8.0. Eluates were then concentrated by centrifugation in Centriprep 30 concentrators at 2000 rpm (Amicon, Beverly, MA). Protein content was evaluated by a BCA protein assay (Pierce Chemical Co., Rockford, IL) and confirmed by SDS-PAGE.

[00348] A detailed description of the protocol utilized to measure the binding of peptides to Class I and Class II MHC has been published (Sette et al., Mol. Immunol. 31:813, 1994; Sidney et al., in Current Protocols in Immunology, Margulies, Ed., John Wiley & Sons, New York, Section 18.3, 1998). Briefly, purified MHC molecules (5 to 500nM) were incubated with various unlabeled peptide inhibitors and 1-10nM ¹²⁵I-radiolabeled probe peptides for 48h in PBS containing 0.05% Nonidet P-40 (NP40) (or 20% w/v digitonin for H-2 IA assays) in the presence of a protease inhibitor cocktail. The final concentrations of protease inhibitors (each from CalBioChem, La Jolla, CA) were 1 mM PMSF, 1.3 nM 1.10 phenanthroline, 73 μM pepstatin A, 8mM EDTA, 6mM N-ethylmaleimide (for Class II assays), and 200 μM N alpha-p-tosyl-L-lysine chloromethyl ketone (TLCK). All assays were performed at pH 7.0 with the exception of DRB1*0301, which was performed at pH 4.5, and DRB1*1601 (DR2w21β1) and DRB4*0101 (DRw53), which were performed at pH 5.0. pH was adjusted as described elsewhere (see Sidney et al., in Current Protocols in Immunology, Margulies, Ed., John Wiley & Sons, New York, Section 18.3, 1998).

[00349] Following incubation, MHC-peptide complexes were separated from free peptide by gel filtration on 7.8 mm x 15 cm TSK200 columns (TosoHaas 16215, Montgomeryville, PA), eluted at 1.2 mls/min with PBS pH 6.5 containing 0.5% NP40 and 0.1% NaN₃. Because the large size of the radiolabeled peptide used for the DRB1*1501 (DR2w2β₁) assay makes separation of bound from unbound peaks more difficult under these conditions, all DRB1*1501 (DR2w2β₁) assays were performed using a 7.8mm x

30cm TSK2000 column eluted at 0.6 mls/min. The eluate from the TSK columns was passed through a Beckman 170 radioisotope detector, and radioactivity was plotted and integrated using a Hewlett-Packard 3396A integrator, and the fraction of peptide bound was determined.

[00350] Radiolabeled peptides were iodinated using the chloramine-T method. Representative radiolabeled probe peptides utilized in each assay, and its assay specific IC₅₀ nM, are known in the art. Typically, in preliminary experiments, each MHC preparation was titered in the presence of fixed amounts of radiolabeled peptides to determine the concentration of HLA molecules necessary to bind 10-20% of the total radioactivity. All subsequent inhibition and direct binding assays were performed using these HLA concentrations.

[00351] Since under these conditions [label]<[HLA] and IC₅₀≥[HLA], the measured IC₅₀ values are reasonable approximations of the true K_D values. Peptide inhibitors are typically tested at concentrations ranging from 120 μg/ml to 1.2 ng/ml, and are tested in two to four completely independent experiments. To allow comparison of the data obtained in different experiments, a relative binding figure is calculated for each peptide by dividing the IC₅₀ of a positive control for inhibition by the IC₅₀ for each tested peptide (typically unlabeled versions of the radiolabeled probe peptide). For inter-experiment comparisons, relative binding values are compiled. These values can subsequently be converted back into IC₅₀ nM values by dividing the IC₅₀ nM of the positive controls for inhibition by the relative binding of the peptide of interest. This method of data compilation has proven to be the most accurate and consistent for comparing peptides that have been tested on different days, or with different lots of purified MHC.

[00352] Because the antibody used for HLA-DR purification (LB3.1) is α-chain specific, β₁ molecules are not separated from β₃ (and/or β₄ and β₅) molecules. The β₁ specificity of the binding assay is obvious in the cases of DRB1*0101 (DR1), DRB1*0802 (DR8w2), and DRB1*0803 (DR8w3), where no β₃ is expressed. It has also been demonstrated for DRB1*0301 (DR3) and DRB3*0101 (DR52a), DRB1*0401 (DR4w4), DRB1*0404 (DR4w14), DRB1*0405 (DR4w15), DRB1*1101 (DR5), DRB1*1201 (DR5w12), DRB1*1302 (DR6w19) and DRB1*0701 (DR7). The problem of β chain specificity for DRB1*1501 (DR2w2β₁), DRB5*0101 (DR2w2β₂), DRB1*1601 (DR2w21β₁), DRB5*0201 (DR51Dw21), and DRB4*0101 (DRw53) assays is circumvented by the use

of fibroblasts. Development and validation of assays with regard to DRβ molecule specificity have been described previously (see, e.g., Southwood et al., J. Immunol. 160:3363-3373, 1998).

[00353] Binding assays as outlined above may be used to analyze supermotif and/or motifbearing epitopes.

EXAMPLE 2. RECOGNITION OF VARIANT PEPTIDES BY CTL DERIVED FROM DNA IMMUNIZATION

Variants corresponding to five HLA-A2 and -A3 restricted epitopes from 167 HIV varianst were identified and synthesized. These represented all the complete sequences in the Los Alamos database at the time (116 strains), as well as 51 complete clade C sequences from Botswana, and included 22 subtype B and 62 subtype C sequences. These peptides were then characterized with regard to MHC binding, variant distribution, and immunogenicity. To measure immunogenicity, HLA-A2/Kb or HLA-A11/Kb transgenic mice were immunized with the epitopes encoded in a DNA based format (). Eleven days after immunization, splenocytes were restimulated with either the epitope corresponding to the epitope encoded by the DNA (parent) or each of the variant peptides. After 6 days in culture, IFN-γ secretion was measured in response to the peptide used to stimulate each culture.

[00355] The data for these epitopes are shown in Figure 1. The HLA-A2-restricted epitope corresponding to the Env 134 epitope (KLTPLCVTL; Figure 1A) used as the immunogen was the form observed most often (134/167). All single anchor variants were recognized to approximately the same extent as the parent peptide. Many of the single non-anchor variants (9/13) were also recognized within 10-fold of the parent peptide. Conservative substitutions (R and Q for K; see Table 4) at position 1 (P1) were tolerated, while the non-conservative substitution (E for K; see Table 4) lowered binding and eliminated recognition. Three P4 variants were observed. Two of these (F or S for P) were recognized within 10-fold of the recognition of the parent peptide, while one substitution (Q for P) completely eliminated recognition. The binding for these peptides was not significantly different from the parent peptide, indicating that this residue may be involved in TCR recognition. Both the conservative (F for L) and non-conservative (R for L) substitutions

seen at P5 completely abrogated recognition, indicating that this residue is important in TCR recognition. Finally, one substitution at P8 (I for V), and four substitutions at P9 show little effect on recognition. None of the variants with multiple substitutions were recognized, although this may be due to the poor binding of these peptides.

[00356] The Gag 386 sequence utilized as the immunogen was the second most common form (VLAEAMSQV), present in 54 strains (Figure 1B). The most prevalent variant, differing by a single tolerated C terminal anchor residue (V to A; 67 strains), was recognized equally to the parent epitope by CTL raised against the parent, as were the remaining single-anchor variants. Single substitutions were also tolerated at the non-anchor positions, P1 (I for V) and P8 (R, K, or H for Q). Only the P7 variant (G for S), probably a TCR contact residue, was not recognized.

[00357] Many of the multiple variants for Gag 386 were also recognized by CTL raised against the parent peptide. All the variants with multiple changes combined a change of V to A or T at the C terminus with 1-3 additional substitutions. Two variants with N terminal changes (V to A or I) were observed. The non-conservative A substitution was not recognized, while the conservative I substitution was. A double variant with a conservative substitution at P3 (A to G) was not recognized, implicating P3 in TCR recognition. Double variants with conservative changes at position 8 (Q to R, K, or H) were not well recognized, although the variants with single changes at the same positions were recognized. The variant combining a non-conservative A residue at position 8 with A at the C terminus was recognized as well as the parent. Equally surprising was the observation that all the variants with 3 or 4 substitutions were recognized within 10-fold of the parent peptide.

[00358] The parent form of the HLA-A2-restricted epitope, Vpr 62 (RILQQLLFI; Figure 1C) was the most common form observed (86/167). Seven well-tolerated single anchor substitutions, 4 P2 and 3 C terminal, were also observed, accounting for most of the remaining variants (47/167). Single substitutions were, in general, also well tolerated. The single exception was the non-conservative substitution (P for L) at P6, while an M for L substitution at the same site was well tolerated. Binding was not affected for either variant, indicating that the reduction in activity is due to a change in a contact residue. Most variants with multiple changes also showed recognition to approximately the same extent as the parent. Several variants however did show reduced recognition. The variant with changes at both anchors (I to T at P2 and I to T at P9) had reduced binding (IC50 of 9700),

and recognition of the peptide was reduced, although not lost completely. Two variants with Q to H changes at P5, in combination with anchor residue changes (I to M at P2 and I to A at P9), exhibited greatly reduced recognition although binding was not affected. Other changes at P5 (Q to R or L at P5) reduced recognition only slightly.

[00359] The HLA-A3/11-restricted epitope, Pol 98 (Figure 1D), represented the most diverse epitope in terms of the number of variant epitopes identified. The peptide encoded in the DNA was represented in only 18 out of 167 strains. Approximately a third of the peptides identified at that position (49 out of 167) did not have recognizable A3/A11 motifs. The most common variant (30 strains) differed from the parent peptide at 3 residues (VSIKVGGQIK), but was recognized within 10-fold of the parent peptide. Two variants with conservative changes at anchor residues were both recognized, although the T to A substitution at P2 resulted in a 10-fold reduction in recognition of the variant peptide. All peptides with single changes in non-anchor positions were also recognized, although the P5 variant (G to E) exhibited a decrease in recognition. As the binding was not affected, this probably indicates involvement in T cell recognition.

[00360] Peptides with two changes showed mixed results. In general, peptides with a V substitution at position 3, in combination with another substitution were recognized to the same extent as the corresponding single substitution, indicating the V substitution was tolerated well and is not a TCR contact residue. Combinations including the P2 anchor residue (T to A or N) were not recognized, although the binding of these peptides was also low. Variants with 3 substitutions were generally not recognized well. Two exceptions with very conservative substitutions were noted (Figure 1D). CTL were unable to recognize peptides with four or more substitutions.

[00361] The HLA-A3/11- restricted Env 47 epitope (Figure 1E; VTVYYGVPVWK) was highly conserved, with only 9 variants identified. The most common form observed was the parent peptide (99 strains), while the second most common form, a single anchor substitution observed in 40 strains, was recognized to the same extent as the parent. All the variants were recognized within 10-fold of the parent epitope.

[00362] Taken together, these data show trends towards promiscuous recognition of variant peptides by CTL generated from immunization with a single peptide. In general, changes that disrupted binding also decreased recognition. Recognition was also affected by the position of the change, with potential TCR contact residues (P3-7) exerting a greater effect on recognition than other residues. In general, conservative residue changes were more

widely tolerated than were non-conservative changes. Recognition was also dependent on the number of changes, with progressively lower recognition with a greater number of changes.

[00363] Recognition after multiple restimulations The observed recognition of variant peptides by CTL raised against the parent peptide might be due to either promiscuous recognition at the level of a single TCR or simply a mixture of TCRs against the immunizing peptide which are each able to recognize subtly different peptides. To distinguish between these two possibilities, Env 134- or Gag 386-specific T cell lines were generated by stimulating five times with the immunizing peptide, and then tested for recognition of a partial panel of variant peptides. These T cell lines were also characterized for Vβ TCR usage against a panel of antibodies predicted to react with the TCR of the mouse strains utilized for these experiments.

[00364] The data for these peptide-specific lines are shown in Table 5. Because the SU is a measure of the number of cells needed to secrete a defined amount of IFN-γ, a higher SU value would correspond to an enrichment of IFN-γ producing cells. A comparison of one and five peptide stimulations indeed shows an enrichment of CTL specific for the immunizing peptide for both of the peptide lines generated (Table 5A and 5B, first line). The Gag 386 line (Table 5A) also demonstrated increased recognition of all the variant peptides measured except one peptide (ILAEAMSKA) that was never recognized. The Env 134 line also demonstrated enrichment for CTL able to recognize several of the variant peptides (Table 5B).

[00365] To further characterize these lines, we examined them for Vβ usage, utilizing a panel of commercially available antibodies available for mouse TCR Vβ 2-14. To determine background levels for the various TCR Vβ molecules, primary splenocytes from mice that had been immunized with EP HIV-1090 were also examined. The results for the Gag 386 line are shown in Figure 2A. After a single stimulation with the parent peptide, the Gag 386 line showed a mixture of TCR positive populations, including Vβ 3, 5, and 14. After 5 stimulations, those populations had been reduced to background levels, and approximately 50% of the CD8+ cells expressed the Vβ 6 TCR. The Env 134 line showed a similar pattern of multiple TCR positive populations after a single round of stimulation with reduction to background levels after 5 stimulations (data not shown). However, no

single $V\beta$ usage significantly above background could be demonstrated, probably due to lack of the relevant TCR $V\beta$ antibody.

[00366] Both lines were also characterized with regard to the affinity of certain of the variant peptides by titrating the variant peptides examined above (Table 5A and 5B). The data for both the Gag 386 and Env 134 lines are shown in Figure 2B. For the Gag 386 line, the parent peptide along with two single anchor variants (VLAEAMSQI and VLAEAMSQA) showed the highest affinity. Four other peptides demonstrated lower affinity, but still produced IFN-γ in response to higher peptide concentrations. A single peptide (ILAEAMSKA) was not recognized.

[00367] As expected, the parent peptide, which was used to generate the Env 134 line, showed the highest affinity for the TCR. The other 2 variant peptides, KITPLCVTL and QLTPLCVTL, also demonstrated higher affinity, but reduced from the parent peptide by approximately 10-fold and 100-fold, respectively. It was notable that only at the highest peptide concentration examined (1 μg/ml) was any IFN-γ secretion detected for five of the peptides (QITPLCVTL, ELTPLCVTL, KLTPFCVTL, KLTPLCVIL, and KLTPLCVPL). These five peptides showed little or no enrichment of CTL able to recognize them, and exhibited the lowest activity as measured by SU after five restimulations (see Table 5B).

[00368] In summary, these cell lines seem to consist of a narrow, possibly single, TCR population. This TCR population recognizes the parent peptide with the highest affinity, but is also able to recognize a number of other variant peptides with equal or lesser affinity.

[00369] Recognition of variant peptides by CTL derived from an HIV infected patient.

[00370] To determine if the same immunological conservation was observed in natural infections, we identified an HIV-infected individual expressing the HLA-A3 allele. The HIV strain and subtype with which this patient was infected is unknown. We had previously shown that T cells from this individual responded to the HLA-A3 restricted epitopes Pol 98 and Env 47. PBL from this patient were examined in an ELISPOT assay to determine if they also showed the capacity for broad cross-reactivity. The data are shown in Figure 3. Although the actual peptide represented in the HIV strain with which this individual is infected is unknown, we observed recognition of a large number of the variant peptides for both Pol 98 (Figure 3A) and Env 47 (Figure 3B). The recognition patterns were remarkably similar for the mouse and patient data (compare Figure 1 and

Figure 3), although the mouse expressed a transgene for HLA-A11 and the patient was HLA-A3.

[00371] Prediction of Immunological Conservation. We had observed that the variant peptides that were recognized by CTL raised against the parent epitope had amino acid substitutions that followed previous observations. For example, the anchor residue changes that were tolerated in the variant peptides were also described as anchors that to define the respective HLA supertypes (). In general, conservative substitutions were tolerated at non-anchor residues, while non-conservative substitutions were less well tolerated. These followed closely the prediction model used to identify heteroclitic analogs (Tangri et al).

[00372] Based on these observations, we designed a computer program to predict immunological conservation. For anchor positions, this program utilized the conserved anchor residues described for the A2, A3, and B7 supertypes. For non-anchor positions only conservative substitutions, as defined in Tangri et.al. (), were allowed. All substitutions at non-anchor positions were analyzed independently and all conservative substitutions were allowed regardless of the number of substitutions. Finally, the position of the substitution was not factored into analysis. Each variant was compared with the parent epitope, and its ability to be recognized was predicted as either positive or negative.

[00373] The first sets of epitopes to be evaluated by this program were the five HIV epitopes and variants previously described. For the Env 134 epitope, the program predicted that 13 of the variant peptides should be immunologically conserved, while 6 should not be recognized. Comparison of the observed immunological data with the prediction showed that the program predicted correctly for 14 of the peptides and incorrectly for 5. Of the incorrect predictions, in two cases the program predicted negative results for peptides that were recognized, while in 3 cases the program predicted positive results for peptides that were not recognized. A similar analysis was performed for all five peptides. Of 101 total variant peptides, 68 were correctly identified (67%). The discordant data were fairly evenly split between peptides incorrectly predicted negative (15) and those incorrectly predicted positive (18).

[00374] As noted previously, the more substitutions present in a variant peptide, the lower the likelihood of its immunogenicity. Since the prediction program treated all substitutions independently, and did not take into account the number of substitutions, we hypothesized

that prediction of single substitutions would be more accurate. Indeed, the immunogenicity of 38 of 47 single substitution variants (80%) was correctly predicted.

[00375] With the limitations of the program in mind, it is useful to predict the recognition of the variants for a package of HLA-A2, -A3, and -B7 supertype epitopes. These epitopes had been identified as being well conserved in Clade B variants. When comparing the conservation of this group of epitopes based on sequence identity versus immunological conservation, it is interesting to note that the predicted recognition gains taking into account immunological conservation are significant (Table 6).

This particular group of 21 epitopes was selected based on their identity [00376] conservation in Clade B HIV sequences, with conservation across HIV clades as a secondary consideration. Because of this criteria, the form of epitope chosen as the parent peptide was not the most common variant (e.g. Gag 386, Gag 271, Pol 98). In some cases (e.g., see Gag 386 data), the "parent" epitope and the most common variant were recognized to the same extent. However, in some cases the selection of epitope to include as the "parent" epitope was predicted to make a difference in the immunological conservation. An example of this was the Gag 271 epitope (Figure 4). The variant most commonly seen in clade B sequences was the MTNNPPIPV form, while the most common form of the epitope was MTSNPPIPV. Not all amino acids are considered equal to each other in their ability to substitute (Tangri). For example, asparagine (N) is considered a conservative substitution for serine (S), while the opposite substitution in only considered semi-conserved. When the program calculated immunological conservation using the MTNNPPIPV peptide as the parent peptide, only two variants were predicted to be immunogenic. However, when the immunological conservation was predicted using the MTSNPPIPV peptide, most of the variants were predicted to be recognized (Figure 4). This prediction was tested using HLA-A2 transgenic mice. The results show that if the MTSNPPIPV form of the peptide was utilized in vaccines, approximately 152 of 167 variants would be recognized, while if the MTNNPPIPV form of the epitope was utilized, only 39 of 167 variants would be recognized. This has important implications in epitope selection for vaccine development, and epitope performance can be predicted.

EXAMPLE 3. A PADRE® MOLECULE AS A HELPER EPITOPE FOR ENHANCEMENT OF CTL INDUCTION

- In there is increasing evidence that HTL activity is critical for the induction of long lasting CTL responses (Livingston et al. J. Immunol 162:3088-3095 (1999); Walter et al., New Engl. J. Med. 333:1038-1044 (1995); Hu et al., J. Exp. Med. 177:1681-1690 (1993)). Therefore, one or more peptides that bind to HLA class II molecules and stimulate HTLs can be used in accordance with the invention. Accordingly, a preferred embodiment of a vaccine includes a molecule from the PADRE® family of universal T helper cell epitopes (HTL) that target most DR molecules in a manner designed to stimulate helper T cells. For instance, a pan-DR-binding epitope peptide having the formula: aKXVAAZTLKAAa, where "X" is either cyclohexylalanine, phenylalanine, or tyrosine; "Z" is either tryptophan, tyrosine, histidine or asparagine; and "a" is either D-alanine or L-alanine (SEQ ID NO:29), has been found to bind to most HLA-DR alleles, and to stimulate the response of T helper lymphocytes from most individuals, regardless of their HLA type.
- [00378] A particularly preferred PADRE® molecule is a synthetic peptide, aKXVAAWTLKAAa (a = D-alanine, X = cyclohexylalanine), containing non-natural amino acids, specifically engineered to maximize both HLA-DR binding capacity and induction of T cell immune responses.
- [00379] Alternative preferred PADRE® molecules are the peptides, aKFVAAWTLKAAa, aKYVAAWTLKAAa, aKYVAAWTLKAAa, aKYVAAYTLKAAa, aKYVAAHTLKAAa, aKYVAAHTLKAAa, aKFVAANTLKAAa, aKFVAANTLKAAa, aKYVAAHTLKAAA, aKFVAANTLKAAa, aKYVAANTLKAAA, aKYVAAWTLKAAA (SEQ ID NO:30), AKFVAAWTLKAAA (SEQ ID NO:31), AKYVAAWTLKAAA (SEQ ID NO:32), AKFVAAYTLKAAA (SEQ ID NO:33), AKXVAAYTLKAAA (SEQ ID NO:34), AKYVAAYTLKAAA (SEQ ID NO:35), AKFVAAHTLKAAA (SEQ ID NO:36), AKXVAAHTLKAAA (SEQ ID NO:37), AKYVAAHTLKAAA (SEQ ID NO:38), AKFVAANTLKAAA (SEQ ID NO:39), AKXVAANTLKAAA (SEQ ID NO:40), AKYVAANTLKAAA (SEQ ID NO:41) (a = D-alanine, X = cyclohexylalanine).
- [00380] In a preferred embodiment, the PADRE® peptide is amidated. For example, a particularly preferred amidated embodiment of a PADRE® molecule is conventionally written aKXVAAWTLKAAa-NH₂.

[00381] Competitive inhibition assays with purified HLA-DR molecules demonstrated that the PADRE® molecule aKXVAAWTLKAAa-NH₂ binds with high or intermediate affinity (IC₅₀ ≤1,000 nM) to 15 out of 16 of the most prevalent HLA-DR molecules ((Kawashima et al., Human Immunology 59:1-14 (1998); Alexander et al., Immunity 1:751-761 (1994)). A comparison of the DR binding capacity of PADRE® and tetanus toxoid (TT) peptide 830-843, a "universal" epitope has been published (Panina-Bordignon et al., Eur. J. Immunology 19:2237-2242 (1989)). The TT 830-843 peptide bound to only seven of 16 DR molecules tested, while PADRE® bound 15 of 16. At least 1 of the 15 DR molecules that bind PADRE® is predicted to be present in >95% of all humans. Therefore, this PADRE® molecule is anticipated to induce an HTL response in virtually all patients, despite the extensive polymorphism of HLA-DR molecules in the human population.

[00382] PADRE® has been specifically engineered for optimal immunogenicity for human T cells. Representative data from *in vitro* primary immunizations of normal human T cells with TT 830-843 antigen and the PADRE® molecule aKXVAAWTLKAAa-NH₂ are shown in Figure 1. Peripheral blood mononuclear cells (PBMC) from three normal donors were stimulated with the peptides *in vitro*. Following the third round of stimulation, it was observed that PADRE® generated significant primary T cell responses for all three donors as measured in a standard T cell proliferation assay. With the PADRE® peptide, the 10,000 cpm proliferation level was generally reached with 10 to 100 ng/ml of antigen. In contrast, TT 830-843 antigen generated responses for only 2 out of 3 of the individuals tested. Responses approaching the 10,000 cpm range were reached with about 10,000 ng/ml of antigen. In this respect, it was noted that PADRE® was, on a molar basis, about 100-fold more potent than TT 830-843 antigen for activation of T cell responses.

[00383] Early data from a phase I/II investigator-sponsored trial, conducted at the University of Leiden (C.J.M. Melief), support the principle that the PADRE® molecule aKXVAAWTLKAAa, possibly the amidated aKXVAAWTLKAAa -NH₂, is highly immunogenic in humans (Ressing et al., J. Immunother. 23(2):255-66 (2000)). In this trial, a PADRE® molecule was co-emulsified with various human papilloma virus (HPV)-derived CTL epitopes and was injected into patients with recurrent or residual cervical carcinoma. However, because of the late stage of carcinoma with the study patients, it was expected that these patients were immunocompromised. The patients' immunocompromised status was demonstrated by their low frequency of influenza virus-

specific CTL, reduced levels of CD3 expression, and low incidence of proliferative recall responses after *in vitro* stimulation with conventional antigens. Thus, no efficacy was anticipated in the University of Leiden trial, rather the goal of that trial was essentially to evaluate safety. Safety was, in fact, demonstrated. In addition to a favorable safety profile, PADRE® T cell reactivity was detected in four of 12 patients (Figure 2) in spite of the reduced immune competence of these patients.

- [00384] Thus, the PADRE® peptide component(s) of the vaccine bind with broad specificity to multiple allelic forms of HLA-DR molecules. Moreover, PADRE® peptide component(s) bind with high affinity (IC₅₀ ≤1000 nM), i.e., at a level of affinity correlated with being immunogenic for HLA Class II restricted T cells. The *in vivo* administration of PADRE® peptide(s) stimulates the proliferation of HTL in normal humans as well as patient populations.
- [00385] One or more PADRE® peptide(s) may be included in a composition, e.g., a vaccine, comprising one or more peptides, either as an individual peptide(s), fused to one or more variant peptides, or both.

EXAMPLE 4. CTL RECOGNITION OF ENDOGENOUS PROCESSED ANTIGENS AFTER PRIMING

- [00386] This example determines that CTL induced by native or analoged peptide epitopes recognize endogenously synthesized, *i.e.*, native antigens.
- [00387] Effector cells isolated from transgenic mice that are immunized with peptide epitopes are re-stimulated *in vitro* using peptide-coated stimulator cells. Six days later, effector cells are assayed for cytotoxicity and the cell lines that contain peptide-specific cytotoxic activity are further re-stimulated. An additional six days later, these cell lines are tested for cytotoxic activity on ⁵¹Cr labeled Jurkat-A2.1/K^b target cells in the absence or presence of peptide, and also tested on ⁵¹Cr labeled target cells bearing the endogenously synthesized antigen, *i.e.* cells that are stably transfected with HTV expression vectors.
- [00388] The result will demonstrate that CTL lines obtained from animals primed with peptide epitope recognize endogenously synthesized HIV antigen. The choice of transgenic mouse model to be used for such an analysis depends upon the epitope(s) that is being evaluated. In addition to HLA-A*0201/K^b transgenic mice, several other transgenic

mouse models including mice with human A11, which may also be used to evaluate A3 epitopes, and B7 alleles have been characterized and others (e.g., transgenic mice for HLA-A1 and A24) are being developed. HLA-DR1 and HLA-DR3 mouse models have also been developed, which may be used to evaluate HTL epitopes.

EXAMPLE 5. ACTIVITY OF CTL-HTL CONJUGATED EPITOPES IN TRANSGENIC MICE

- of a HIV CTL/HTL peptide conjugate whereby the vaccine composition comprises peptides administered to an HIV-infected patient or an individual at risk for HIV. The peptide composition can comprise multiple CTL and/or HTL epitopes. This analysis demonstrates enhanced immunogenicity that can be achieved by inclusion of one or more HTL epitopes in a vaccine composition. Such a peptide composition can comprise an HTL epitope conjugated to a preferred CTL epitope containing, for example, at least one CTL epitope, or an analog of that epitope. The peptides may be lipidated, if desired.
- [00390] Immunization procedures: Immunization of transgenic mice is performed as described (Alexander et al., J. Immunol. 159:4753-4761, 1997). For example, A2/K^b mice, which are transgenic for the human HLA A2.1 allele and are useful for the assessment of the immunogenicity of HLA-A*0201 motif- or HLA-A2 supermotif-bearing epitopes, are primed subcutaneously (base of the tail) with a 0.1 ml of peptide in Incomplete Freund's Adjuvant, or if the peptide composition is a lipidated CTL/HTL conjugate, in DMSO/saline or if the peptide composition is a polypeptide, in PBS or Incomplete Freund's Adjuvant. Seven days after priming, splenocytes obtained from these animals are restimulated with syngenic irradiated LPS-activated lymphoblasts coated with peptide.
- [00391] Cell lines: Target cells for peptide-specific cytotoxicity assays are Jurkat cells transfected with the HLA-A2.1/K^b chimeric gene (e.g., Vitiello et al., J. Exp. Med. 173:1007, 1991).
- [00392] In vitro CTL activation: One week after priming, spleen cells (30x10⁶ cells/flask) are co-cultured at 37°C with syngeneic, irradiated (3000 rads), peptide coated

lymphoblasts (10x10⁶ cells/flask) in 10 ml of culture medium/T25 flask. After six days, effector cells are harvested and assayed for cytotoxic activity.

Assay for cytotoxic activity: Target cells (1.0 to 1.5x10⁶) are incubated at 37°C in [00393] the presence of 200 µl of 51Cr. After 60 minutes, cells are washed three times and resuspended in R10 medium. Peptide is added where required at a concentration of 1 μg/ml. For the assay, 10^{4 51}Cr-labeled target cells are added to different concentrations of effector cells (final volume of 200 µl) in U-bottom 96-well plates. After a 6 hour incubation period at 37°C, a 0.1 ml aliquot of supernatant is removed from each well and radioactivity is determined in a Micromedic automatic gamma counter. The percent specific lysis is determined by the formula: percent specific release = 100 x (experimental release - spontaneous release)/(maximum release - spontaneous release). To facilitate comparison between separate CTL assays run under the same conditions, % 51Cr release data is expressed as lytic units/10⁶ cells. One lytic unit is arbitrarily defined as the number of effector cells required to achieve 30% lysis of 10,000 target cells in a 6 hour 51Cr release assay. To obtain specific lytic units/106, the lytic units/106 obtained in the absence of peptide is subtracted from the lytic units/10⁶ obtained in the presence of peptide. For example, if 30% ⁵¹Cr release is obtained at the effector (E): target (T) ratio of 50:1 (i.e., $5x10^5$ effector cells for 10,000 targets) in the absence of peptide and 5:1 (i.e., $5x10^4$ effector cells for 10,000 targets) in the presence of peptide, the specific lytic units would be: $[(1/50,000)-(1/500,000)] \times 10^6 = 18 \text{ LU}$.

[00394] The results are analyzed to assess the magnitude of the CTL responses of animals injected with the immunogenic CTL/HTL conjugate vaccine preparation and are compared to the magnitude of the CTL response achieved using the CTL epitope as outlined in above. Analyses similar to this may be performed to evaluate the immunogenicity of peptide conjugates containing multiple CTL epitopes and/or multiple HTL epitopes. In accordance with these procedures it is found that a CTL response is induced, and concomitantly that an HTL response is induced upon administration of such compositions.

EXAMPLE 6. SELECTION OF CTL AND HTL EPITOPES FOR INCLUSION IN AN HIV-SPECIFIC VACCINE.

- [00395] This example illustrates the procedure for the selection of peptide epitopes for vaccine compositions of the invention. The peptides in the composition can be in the form of a nucleic acid sequence, either single or one or more sequences (i.e., minigene) that encodes peptide(s), or can be single and/or polyepitopic peptides.
- [00396] The following principles are utilized when selecting an array of epitopes for inclusion in a vaccine composition. Each of the following principles is balanced in order to make the selection.
- [00397] Epitopes are selected which, upon administration, mimic immune responses that correlate with virus clearance. For example, if it has been observed that patients who clear HIV generate an immune response to at least 3 epitopes on at least one HIV antigen, then 3-4 epitopes should be included for HLA class I. A similar rationale is used to determine HLA class II epitopes.
- [00398] When selecting an array of HIV epitopes, it is preferred that at least some of the epitopes are derived from early and late proteins. The early proteins of HIV are expressed when the virus is replicating, either following acute or dormant infection. Therefore, it is particularly preferred to use epitopes from early stage proteins to alleviate disease manifestations at the earliest stage possible.
- [00399] Epitopes are often selected that have a binding affinity of an IC₅₀ of 500 nM or less for an HLA class I molecule, or for class II, an IC₅₀ of 1000 nM or less.
- [00400] Sufficient supermotif bearing peptides, or a sufficient array of allele-specific motif bearing peptides, are selected to give broad population coverage. For example, epitopes are selected to provide at least 80% population coverage. A Monte Carlo analysis, a statistical evaluation known in the art, can be employed to assess breadth, or redundancy, of population coverage.
- [00401] When creating a polyepitopic compositions, e.g. a minigene, it is typically desirable to generate the smallest peptide possible that encompasses the epitopes of interest. The principles employed are similar, if not the same, as those employed when selecting a peptide comprising nested epitopes.
- [00402] In cases where the sequences of multiple variants of the same target protein are available, potential peptide epitopes can also be selected on the basis of their conservancy.

For example, a criterion for conservancy may define that the entire sequence of an HLA class I binding peptide or the entire 9-mer core of a class II binding peptide be conserved in a designated percentage of the sequences evaluated for a specific protein antigen.

[00403] Peptide epitopes for inclusion in vaccine compositions are, for example, selected from those listed in Tables 6-9 or Figures 1A-4. A vaccine composition comprised of selected peptides, when administered, is safe, efficacious, and elicits an immune response similar in magnitude of an immune response that clears an acute HIV infection.

EXAMPLE 7. CONSTRUCTION OF MINIGENE MULTI-EPITOPE DNA PLASMIDS

[00404] This example provides general guidance for the construction of a minigene expression plasmid. Minigene plasmids may, of course, contain various configurations of CTL and/or HTL epitopes or epitope analogs as described herein. Expression plasmids have been constructed and evaluated as described, for example, in co-pending U.S.S.N. 09/311,784 filed 5/13/99 and in Ishioka et al., J. Immunol. 162:3915-3925, 1999. An example of such a plasmid for the expression of HIV epitopes is shown in Figure 2, which illustrates the orientation of HIV peptide epitopes in a minigene construct.

[00405] A minigene expression plasmid typically includes multiple CTL and HTL peptide epitopes. In the present example, HLA-A2, -A3, -B7 supermotif-bearing peptide epitopes and HLA-A1 and -A24 motif-bearing peptide epitopes are used in conjunction with DR supermotif-bearing epitopes and/or DR3 epitopes (Figure 2). Preferred epitopes are identified, for example, in Tables 6-9 and Figures 1A-4. HLA class I supermotif or motif-bearing peptide epitopes derived from multiple HIV antigens, are selected such that multiple supermotifs/motifs are represented to ensure broad population coverage. Similarly, HLA class II epitopes are selected from multiple HIV antigens to provide broad population coverage, *i.e.* both HLA DR-1-4-7 supermotif-bearing epitopes and HLA DR-3 motif-bearing epitopes are selected for inclusion in the minigene construct. The selected CTL and HTL epitopes are then incorporated into a minigene for expression in an expression vector.

[00406] Such a construct may additionally include sequences that direct the HTL epitopes to the endoplasmic reticulum. For example, the Ii protein may be fused to one or more HTL epitopes as described in co-pending application U.S.S.N. 09/311,784 filed 5/13/99,

wherein the CLIP sequence of the Ii protein is removed and replaced with an HLA class II epitope sequence os that HLA class II epitope is directed to the endoplasmic reticulum, where the epitope binds to an HLA class II molecules.

[00407] This example illustrates the methods to be used for construction of a minigenebearing expression plasmid. Other expression vectors that may be used for minigene compositions are available and known to those of skill in the art.

[00408] The minigene DNA plasmid contains a consensus Kozak sequence and a consensus murine kappa Ig-light chain signal sequence followed by CTL and/or HTL epitopes selected in accordance with principles disclosed herein. The construct can also include, for example, The sequence encodes an open reading frame fused to the Myc and His antibody epitope tag coded for by the pcDNA 3.1 Myc-His vector.

[00409] Overlapping oligonucleotides, for example eight oligonucleotides, averaging approximately 70 nucleotides in length with 15 nucleotide overlaps, are synthesized and HPLC-purified. The oligonucleotides encode the selected peptide epitopes as well as appropriate linker nucleotides, Kozak sequence, and signal sequence. The final multiepitope minigene is assembled by extending the overlapping oligonucleotides in three sets of reactions using PCR. A Perkin/Elmer 9600 PCR machine is used and a total of 30 cycles are performed using the following conditions: 95°C for 15 sec, annealing temperature (5° below the lowest calculated Tm of each primer pair) for 30 sec, and 72°C for 1 min.

[00410] For the first PCR reaction, 5 µg of each of two oligonucleotides are annealed and extended: Oligonucleotides 1+2, 3+4, 5+6, and 7+8 are combined in 100 µl reactions containing Pfu polymerase buffer (1x= 10 mM KCL, 10 mM (NH₄)₂SO₄, 20 mM Trischloride, pH 8.75, 2 mM MgSO₄, 0.1% Triton X-100, 100 µg/ml BSA), 0.25 mM each dNTP, and 2.5 U of Pfu polymerase. The full-length dimer products are gel-purified, and two reactions containing the product of 1+2 and 3+4, and the product of 5+6 and 7+8 are mixed, annealed, and extended for 10 cycles. Half of the two reactions are then mixed, and 5 cycles of annealing and extension carried out before flanking primers are added to amplify the full length product for 25 additional cycles. The full-length product is gel-purified and cloned into pCR-blunt (Invitrogen) and individual clones are screened by sequencing.

EXAMPLE 8. THE PLASMID CONSTRUCT AND THE DEGREE TO WHICH IT INDUCES IMMUNOGENICITY.

- [00411] The degree to which a plasmid construct, for example a plasmid constructed in accordance as above is able to induce immunogenicity can be evaluated *in vitro* by testing for epitope presentation by APC following transduction or transfection of the APC with an epitope-expressing nucleic acid construct. Such a study determines "antigenicity" and allows the use of human APC. The assay determines the ability of the epitope to be presented by the APC in a context that is recognized by a T cell by quantifying the density of epitope-HLA class I complexes on the cell surface. Quantitation can be performed by directly measuring the amount of peptide eluted from the APC (see, e.g., Sijts et al., J. Immunol. 156:683-692, 1996; Demotz et al., Nature 342:682-684, 1989); or the number of peptide-HLA class I complexes can be estimated by measuring the amount of lysis or lymphokine release induced by infected or transfected target cells, and then determining the concentration of peptide necessary to obtained equivalent levels of lysis or lymphokine release (see, e.g., Kageyama et al., J. Immunol. 154:567-576, 1995).
- [00412] Atlernatively, immunogenicity can be evaluated through *in vivo* injections into mice and subsequent *in vitro* assessment of CTL and HTL activity, which are analysed using cytotoxicity and proliferation assays, respectively, as detailed *e.g.*, in copending U.S.S.N. 09/311,784 filed 5/13/99 and Alexander *et al.*, *Immunity* 1:751-761, 1994.
- [00413] For example, to assess the capacity of a DNA minigene construct (e.g., a pMin minigene construct generated as decribed in U.S.S.N. 09/311,784) containing at least one HLA-A2 supermotif peptide to induce CTLs in vivo, HLA-A2.1/Kb transgenic mice, for example, are immunized intramuscularly with 100 µg of naked cDNA. As a means of comparing the level of CTLs induced by cDNA immunization, a control group of animals is also immunized with an actual peptide composition that comprises multiple epitopes synthesized as a single polypeptide as they would be encoded by the minigene.
- [00414] Splenocytes from immunized animals are stimulated twice with each of the respective compositions (peptide epitopes encoded in the minigene or the polyepitopic peptide), then assayed for peptide-specific cytotoxic activity in a ⁵¹Cr release assay. The results indicate the magnitude of the CTL response directed against the A2-restricted epitope, thus indicating the *in vivo* immunogenicity of the minigene vaccine and polyepitopic vaccine. It is, therefore, found that the minigene elicits immune responses

directed toward the HLA-A2 supermotif peptide epitopes as does the polyepitopic peptide vaccine. A similar analysis is also performed using other HLA-A3 and HLA-B7 transgenic mouse models to assess CTL induction by HLA-A3 and HLA-B7 motif or supermotif epitopes.

[00415] To assess the capacity of a class II epitope encoding minigene to induce HTLs in vivo, DR transgenic mice, or for those epitope that cross react with the appropriate mouse MHC molecule, I-A^b-restricted mice, for example, are immunized intramuscularly with 100 μg of plasmid DNA. As a means of comparing the level of HTLs induced by DNA immunization, a group of control animals is also immunized with an actual peptide composition emulsified in complete Freund's adjuvant. CD4+ T cells, i.e. HTLs, are purified from splenocytes of immunized animals and stimulated with each of the respective compositions (peptides encoded in the minigene). The HTL response is measured using a ³H-thymidine incorporation proliferation assay, (see, e.g., Alexander et al. Immunity 1:751-761, 1994). The results indicate the magnitude of the HTL response, thus demonstrating the in vivo immunogenicity of the minigene.

DNA minigenes, constructed as described above or below, may also be evaluated as a vaccine in combination with a boosting agent using a prime boost protocol. The boosting agent can consist of recombinant protein (e.g., Barnett et al., Aids Res. and Human Retroviruses 14, Supplement 3:S299-S309, 1998) or recombinant vaccinia, for example, expressing a minigene or DNA encoding the complete protein of interest (see, e.g., Hanke et al., Vaccine 16:439-445, 1998; Sedegah et al., Proc. Natl. Acad. Sci USA 95:7648-53, 1998; Hanke and McMichael, Immunol. Letters 66:177-181, 1999; and Robinson et al., Nature Med. 5:526-34, 1999).

[00417] For example, the efficacy of the DNA minigene used in a prime boost protocol is initially evaluated in transgenic mice. In this example, A2.1/K^b transgenic mice are immunized IM with 100 μg of a DNA minigene encoding the immunogenic peptides including at least one HLA-A2 supermotif-bearing peptide. After an incubation period (ranging from 3-9 weeks), the mice are boosted IP with 10⁷ pfu/mouse of a recombinant vaccinia virus expressing the same sequence encoded by the DNA minigene. Control mice are immunized with 100 μg of DNA or recombinant vaccinia without the minigene sequence, or with DNA encoding the minigene, but without the vaccinia boost. After an additional incubation period of two weeks, splenocytes from the mice are immediately assayed for peptide-specific activity in an ELISPOT assay. Additionally, splenocytes are

stimulated *in vitro* with the A2-restricted peptide epitopes encoded in the minigene and recombinant vaccinia, then assayed for peptide-specific activity in an IFN-γ ELISA.

[00418] It is found that the minigene utilized in a prime-boost protocol elicits greater immune responses toward the HLA-A2 supermotif peptides than with DNA alone. Such an analysis can also be performed using HLA-A11 or HLA-B7 transgenic mouse models to assess CTL induction by HLA-A3 or HLA-B7 motif or supermotif epitopes.

[00419] The use of prime boost protocols in humans is described in below.

EXAMPLE 9. PEPTIDE COMPOSITION FOR PROPHYLACTIC USES

[00420] Vaccine compositions of the present invention can be used to prevent HIV infection in persons who are at risk for such infection. For example, a polyepitopic peptide epitope composition (or a nucleic acid comprising the same) containing multiple CTL and HTL epitopes, which are also selected to target greater than 80% of the population, is administered to individuals at risk for HIV infection.

[00421] For example, a peptide-based composition can be provided as a single polypeptide that encompasses multiple epitopes. The vaccine is typically administered in a physiological solution that comprises an adjuvant, such as Incomplete Freunds Adjuvant. The dose of peptide for the initial immunization is from about 1 to about 50,000 μg, generally 100-5,000 μg, for a 70 kg patient. The initial administration of vaccine is followed by booster dosages at 4 weeks followed by evaluation of the magnitude of the immune response in the patient, by techniques that determine the presence of epitopespecific CTL populations in a PBMC sample. Additional booster doses are administered as required. The composition is found to be both safe and efficacious as a prophylaxis against HIV infection.

[00422] Alternatively, a composition typically comprising transfecting agents can be used for the administration of a nucleic acid-based vaccine in accordance with methodologies known in the art and disclosed herein.

EXAMPLE 10. POLYEPITOPIC VACCINE COMPOSITIONS DERIVED FROM NATIVE HIV SEQUENCES

[00423] A native HIV polyprotein sequence is screened, preferably using computer algorithms defined for each class I and/or class II supermotif or motif, to identify "relatively short" regions of the polyprotein that comprise multiple epitopes and is preferably less in length than an entire native antigen. This relatively short sequence that contains multiple distinct, even overlapping, epitopes is selected and used to generate a minigene construct. The construct is engineered to express the peptide, which corresponds to the native protein sequence. The "relatively short" peptide is generally less than 250 amino acids in length, often less than 100 amino acids in length, preferably less than 75 amino acids in length, and more preferably less than 50 amino acids in length. The protein sequence of the vaccine composition is selected because it has maximal number of epitopes contained within the sequence, *i.e.*, it has a high concentration of epitopes. As noted herein, epitope motifs may be nested or overlapping, for example, two 9-mer epitopes and one 10-mer epitope can be present in a 10 amino acid peptide. Such a vaccine composition is administered for therapeutic or prophylactic purposes.

[00424] The vaccine composition will preferably include, for example, three CTL epitopes and at least one HTL epitope from HIV. This polyepitopic native sequence is administered either as a peptide or as a nucleic acid sequence which encodes the peptide. Alternatively, an analog can be made of this native sequence, whereby one or more of the epitopes comprise substitutions that alter the cross-reactivity and/or binding affinity properties of the polyepitopic peptide.

[00425] The embodiment of this example provides for the possibility that an as yet undiscovered aspect of immune system processing will apply to the native nested sequence and thereby facilitate the production of therapeutic or prophylactic immune response-inducing vaccine compositions. Additionally such an embodiment provides for the possibility of motif-bearing epitopes for an HLA makeup that is presently unknown. Furthermore, this embodiment (absent analogs) directs the immune response to multiple peptide sequences that are actually present in native HIV antigens thus avoiding the need to evaluate any junctional epitopes. Lastly, the embodiment provides an economy of scale when producing nucleic acid vaccine compositions.

[00426] Related to this embodiment, computer programs can be derived in accordance with principles in the art, which identify in a target sequence, the greatest number of epitopes per sequence length.

EXAMPLE 11. POLYEPITOPIC VACCINE COMPOSITIONS DIRECTED TO MULTIPLE DISEASES

- [00427] The HIV peptide epitopes of the present invention are used in conjunction with peptide epitopes from target antigens related to one or more other diseases, to create a vaccine composition that is useful for the prevention or treatment of HIV as well as the one or more other disease(s). Examples of the other diseases include, but are not limited to, HCV and HBV.
- [00428] For example, a polyepitopic peptide composition comprising multiple CTL and HTL epitopes that target greater than 98% of the population may be created for administration to individuals at risk for both HBV and HIV infection. The composition can be provided as a single polypeptide that incorporates the multiple epitopes from the various disease-associated sources, or can be administered as a composition comprising one or more discrete epitopes.

EXAMPLE 12. USE OF PEPTIDES TO EVALUATE AN IMMUNE RESPONSE

- [00429] Peptides of the invention may be used to analyze an immune response for the presence of specific CTL or HTL populations directed to HIV. Such an analysis may be performed in a manner as that described by Ogg et al., Science 279:2103-2106, 1998. In the following example, peptides in accordance with the invention are used as a reagent for diagnostic or prognostic purposes, not as an immunogen.
- [00430] In this example highly sensitive human leukocyte antigen tetrameric complexes ("tetramers") are used for a cross-sectional analysis of, for example, HIV HLA-A*0201-specific CTL frequencies from HLA A*0201-positive individuals at different stages of infection or following immunization using an HIV peptide containing an A*0201 motif. Tetrameric complexes are synthesized as described (Musey et al., N. Engl. J. Med. 337:1267, 1997). Briefly, purified HLA heavy chain (A*0201 in this example) and β2-

microglobulin are synthesized by means of a prokaryotic expression system. The heavy chain is modified by deletion of the transmembrane-cytosolic tail and COOH-terminal addition of a sequence containing a BirA enzymatic biotinylation site. The heavy chain, β2-microglobulin, and peptide are refolded by dilution. The 45-kD refolded product is isolated by fast protein liquid chromatography and then biotinylated by BirA in the presence of biotin (Sigma, St. Louis, Missouri), adenosine 5'triphosphate and magnesium. Streptavidin-phycoerythrin conjugate is added in a 1:4 molar ratio, and the tetrameric product is concentrated to 1 mg/ml. The resulting product is referred to as tetramer-phycoerythrin.

[00431] For the analysis of patient blood samples, approximately one million PBMCs are centrifuged at 300 x g for 5 minutes and resuspended in 50 µl of cold phosphate-buffered saline. Tri-color analysis is performed with the tetramer-phycoerythrin, along with anti-CD8-Tricolor, and anti-CD38. The PBMCs are incubated with tetramer and antibodies on ice for 30 to 60 min and then washed twice before formaldehyde fixation. Gates are applied to contain >99.98% of control samples. Controls for the tetramers include both A*0201-negative individuals and A*0201-positive uninfected donors. The percentage of cells stained with the tetramer is then determined by flow cytometry. The results indicate the number of cells in the PBMC sample that contain epitope-restricted CTLs, thereby readily indicating the extent of immune response to the HIV epitope, and thus the stage of infection with HIV, the status of exposure to HIV, or exposure to a vaccine that elicits a protective or therapeutic response.

EXAMPLE 13. USE OF PEPTIDE EPITOPES TO EVALUATE RECALL RESPONSES

- [00432] The peptide epitopes of the invention are used as reagents to evaluate T cell responses, such as acute or recall responses, in patients. Such an analysis may be performed on patients who have recovered from infection, who are chronically infected with HIV, or who have been vaccinated with an HIV vaccine.
- [00433] For example, the class I restricted CTL response of persons who have been vaccinated may be analyzed. The vaccine may be any HIV vaccine. PBMC are collected from vaccinated individuals and HLA typed. Appropriate peptide epitopes of the invention that, optimally, bear supermotifs to provide cross-reactivity with multiple HLA

supertype family members, are then used for analysis of samples derived from individuals who bear that HLA type.

PBMC from vaccinated individuals are separated on Ficoll-Histopaque density gradients (Sigma Chemical Co., St. Louis, MO), washed three times in HBSS (GIBCO Laboratories), resuspended in RPMI-1640 (GIBCO Laboratories) supplemented with L-glutamine (2mM), penicillin (50U/ml), streptomycin (50 μg/ml), and Hepes (10mM) containing 10% heat-inactivated human AB serum (complete RPMI) and plated using microculture formats. A synthetic peptide comprising an epitope of the invention is added at 10 μg/ml to each well and HBV core 128-140 epitope is added at 1 μg/ml to each well as a source of T cell help during the first week of stimulation.

[00435] In the microculture format, 4 x 10⁵ PBMC are stimulated with peptide in 8 replicate cultures in 96-well round bottom plate in 100 μl/well of complete RPMI. On days 3 and 10, 100 ml of complete RPMI and 20 U/ml final concentration of rIL-2 are added to each well. On day 7 the cultures are transferred into a 96-well flat-bottom plate and restimulated with peptide, rIL-2 and 10⁵ irradiated (3,000 rad) autologous feeder cells. The cultures are tested for cytotoxic activity on day 14. A positive CTL response requires two or more of the eight replicate cultures to display greater than 10% specific ⁵¹Cr release, based on comparison with uninfected control subjects as previously described (Rehermann, et al., Nature Med. 2:1104,1108, 1996; Rehermann et al., J. Clin. Invest. 97:1655-1665, 1996; and Rehermann et al. J. Clin. Invest. 98:1432-1440, 1996).

[00436] Target cell lines are autologous and allogeneic EBV-transformed B-LCL that are either purchased from the American Society for Histocompatibility and Immunogenetics (ASHI, Boston, MA) or established from the pool of patients as described (Guilhot, et al. J. Virol. 66:2670-2678, 1992).

[00437] Cytotoxicity assays are performed in the following manner. Target cells consist of either allogeneic HLA-matched or autologous EBV-transformed B lymphoblastoid cell line that are incubated overnight with the synthetic peptide epitope of the invention at 10 μM, and labeled with 100 μCi of ⁵¹Cr (Amersham Corp., Arlington Heights, IL) for 1 hour after which they are washed four times with HBSS.

[00438] Cytolytic activity is determined in a standard 4-h, split well ⁵¹Cr release assay using U-bottomed 96 well plates containing 3,000 targets/well. Stimulated PBMC are tested at effector/target (E/T) ratios of 20-50:1 on day 14. Percent cytotoxicity is determined from the formula: 100 x [(experimental release-spontaneous

release)/maximum release-spontaneous release)]. Maximum release is determined by lysis of targets by detergent (2% Triton X-100; Sigma Chemical Co., St. Louis, MO). Spontaneous release is <25% of maximum release for all experiments.

[00439] The results of such an analysis indicate the extent to which HLA-restricted CTL populations have been stimulated by previous exposure to HIV or an HIV vaccine.

The class II restricted HTL responses may also be analyzed. Purified PBMC are cultured in a 96-well flat bottom plate at a density of 1.5x10⁵ cells/well and are stimulated with 10 μg/ml synthetic peptide, whole antigen, or PHA. Cells are routinely plated in replicates of 4-6 wells for each condition. After seven days of culture, the medium is removed and replaced with fresh medium containing 10U/ml IL-2. Two days later, 1 μCi ³H-thymidine is added to each well and incubation is continued for an additional 18 hours. Cellular DNA is then harvested on glass fiber mats and analyzed for ³H-thymidine incorporation. Antigen-specific T cell proliferation is calculated as the ratio of ³H-thymidine incorporation in the presence of antigen divided by the ³H-thymidine incorporation in the absence of antigen.

EXAMPLE 14. INDUCTION OF SPECIFIC CTL RESPONSE IN HUMANS

[00441] A human clinical trial for an immunogenic composition comprising CTL and HTL epitopes of the invention is set up as an IND Phase I, dose escalation study and carried out as a randomized, double-blind, placebo-controlled trial. Such a trial is designed, for example, as follows:

[00442] A total of about 27 subjects are enrolled and divided into 3 groups:

Group I: 3 subjects are injected with placebo and 6 subjects are injected with 5 μg of peptide composition;

Group II: 3 subjects are injected with placebo and 6 subjects are injected with 50 μg peptide composition;

Group III: 3 subjects are injected with placebo and 6 subjects are injected with 500 μ g of peptide composition.

[00443] After 4 weeks following the first injection, all subjects receive a booster inoculation at the same dosage.

[00444] The endpoints measured in this study relate to the safety and tolerability of the peptide composition as well as its immunogenicity. Cellular immune responses to the peptide composition are an index of the intrinsic activity of this the peptide composition, and can therefore be viewed as a measure of biological efficacy. The following summarize the clinical and laboratory data that relate to safety and efficacy endpoints.

- [00445] Safety: The incidence of adverse events is monitored in the placebo and drug treatment group and assessed in terms of degree and reversibility.
- [00446] Evaluation of Vaccine Efficacy: For evaluation of vaccine efficacy, subjects are bled before and after injection. Peripheral blood mononuclear cells are isolated from fresh heparinized blood by Ficoll-Hypaque density gradient centrifugation, aliquoted in freezing media and stored frozen. Samples are assayed for CTL and HTL activity.

[00447] The vaccine is found to be both safe and efficacious.

EXAMPLE 15. PHASE II TRIALS IN PATIENTS INFECTED WITH HIV

- [00448] Phase II trials are performed to study the effect of administering the CTL-HTL peptide compositions to HIV-infected patients. The main objectives of the trials are to determine an effective dose and regimen for inducing CTLs in chronically infected HIV patients, to establish the safety of inducing a CTL and HTL response in these patients, and to see to what extent activation of CTLs improves the clinical picture of chronically infected HIV patients, as manifested by a reduction in viral load and an increase in CD4⁺ cells counts. Such a study is designed, for example, as follows:
- [00449] The studies are performed in multiple centers. The trial design is an open-label, uncontrolled, dose escalation protocol wherein the peptide composition is administered as a single dose followed six weeks later by a single booster shot of the same dose. The dosages are 50, 500 and 5,000 micrograms per injection. Drug-associated adverse effects (severity and reversibility) are recorded.
- [00450] There are three patient groupings. The first group is injected with 50 micrograms of the peptide composition and the second and third groups with 500 and 5,000 micrograms of peptide composition, respectively. The patients within each group range in age from 21-65, include both males and females, and represent diverse ethnic

backgrounds. All of them are infected with HIV for over five years and are HCV, HBV and delta hepatitis virus (HDV) negative, but have positive levels of HIV antigen.

[00451] The viral load and CD4⁺ levels are monitored to assess the effects of administering the peptide compositions. The vaccine composition is found to be both safe and efficacious in the treatment of HIV infection.

EXAMPLE 16. INDUCTION OF CTL RESPONSES USING A PRIME BOOST PROTOCOL

[00452] A prime boost protocol can also be used for the administration of the vaccine to humans. Such a vaccine regimen can include an initial administration of, for example, naked DNA followed by a boost using recombinant virus encoding the vaccine, or recombinant protein/polypeptide or a peptide mixture administered in an adjuvant.

[00453] For example, the initial immunization is performed using an expression vector, such as that constructed above, in the form of naked nucleic acid administered IM (or SC or ID) in the amounts of 0.5-5 mg at multiple sites. The nucleic acid (0.1 to 1000 μg) can also be administered using a gene gun. Following an incubation period of 3-4 weeks, a booster dose is then administered. The booster is, for example, recombinant fowlpox virus administered at a dose of 5-10⁷ to 5x10⁹ pfu. An alternative recombinant virus, such as an MVA, canarypox, adenovirus, or adeno-associated virus, can also be used for the booster, or the polyepitopic protein or a mixture of the peptides can be administered. For evaluation of vaccine efficacy, patient blood samples are obtained before immunization as well as at intervals following administration of the initial vaccine and booster doses of the vaccine. Peripheral blood mononuclear cells are isolated from fresh heparinized blood by Ficoll-Hypaque density gradient centrifugation, aliquoted in freezing media and stored frozen. Samples are assayed for CTL and HTL activity.

[00454] Analysis of the results indicates that a magnitude of sufficient response to achieve protective immunity against HIV is generated.

EXAMPLE 17. ADMINISTRATION OF VACCINE COMPOSITIONS USING DENDRITIC CELLS

- [00455] Vaccines comprising peptide epitopes of the invention can be administered using APCs, or "professional" APCs such as DC. In this example, the peptide-pulsed DC are administered to a patient to stimulate a CTL response in vivo. In this method, dendritic cells are isolated, expanded, and pulsed with a vaccine comprising peptide CTL and HTL epitopes of the invention. The dendritic cells are infused back into the patient to elicit CTL and HTL responses in vivo. The induced CTL and HTL then destroy or facilitate destruction of the specific target cells that bear the proteins from which the epitopes in the vaccine are derived.
- [00456] For example, a cocktail of epitope-bearing peptides is administered ex vivo to PBMC, or isolated DC therefrom. A pharmaceutical to facilitate harvesting of DC can be used, such as ProgenipoietinTM (Monsanto, St. Louis, MO) or GM-CSF/IL-4. After pulsing the DC with peptides and prior to reinfusion into patients, the DC are washed to remove unbound peptides.
- [00457] As appreciated clinically, and readily determined by one of skill based on clinical outcomes, the number of DC reinfused into the patient can vary (see, e.g., Nature Med. 4:328, 1998; Nature Med. 2:52, 1996 and Prostate 32:272, 1997). Although 2-50 x 10⁶ DC per patient are typically administered, larger number of DC, such as 10⁷ or 10⁸ can also be provided. Such cell populations typically contain between 50-90% DC.
- In some embodiments, peptide-loaded PBMC are injected into patients without purification of the DC. For example, PBMC containing DC generated after treatment with an agent such as ProgenipoietinTM are injected into patients without purification of the DC. The total number of PBMC that are administered often ranges from 10⁸ to 10¹⁰. Generally, the cell doses injected into patients is based on the percentage of DC in the blood of each patient, as determined, for example, by immunofluorescence analysis with specific anti-DC antibodies. Thus, for example, if ProgenipoietinTM mobilizes 2% DC in the peripheral blood of a given patient, and that patient is to receive 5 x 10⁶ DC, then the patient will be injected with a total of 2.5 x 10⁸ peptide-loaded PBMC. The percent DC mobilized by an agent such as ProgenipoietinTM is typically estimated to be between 2-10%, but can vary as appreciated by one of skill in the art.

Ex vivo activation of CTL/HTL responses

[00459] Alternatively, ex vivo CTL or HTL responses to HIV antigens can be induced by incubating in tissue culture the patient's, or genetically compatible, CTL or HTL precursor cells together with a source of APC, such as DC, and the appropriate immunogenic peptides. After an appropriate incubation time (typically about 7-28 days), in which the precursor cells are activated and expanded into effector cells, the cells are infused back into the patient, where they will destroy or facilitate destruction of their specific target cells.

[00460] It is understood that the examples and embodiments described herein are for illustrative purposes only and that various modifications or changes in light thereof will be suggested to persons skilled in the art and are to be included within the spirit and purview of this application and scope of the appended claims. All publications, patents, patent applications and sequence listings cited herein are hereby incorporated by reference in their entirety for all purposes.

TABLE 1

SUPERMOTIFS	POSITION	POSITION	POSITION
	2 (Primary	3 (Primary	C Terminus (Primary
	Anchor)	Anchor)	Anchor)
A1	T, I, L, V, M, S		F, W, Y
A2	Q		I, V, M, A, T, L
A3	V, S, M, A, T, L,		R,K
A24	Y, F, W, I, V, L, M, T		F, I, Y, W, L, M
B7	P		V, I, L, F, M, W, Y, A
B27	R, H, K		F, Y, L, W, M, I, V, A
B44	\mathbf{E}, D		F, W, L, I, M, V, A
B58	A, T, S	<u> </u>	F, W, Y, L, I, V, M, A
B62	Q , L, <i>I</i> , <i>V</i> , <i>M</i> , <i>P</i>		F, W, Y, M, I, V, L, A
MOTIFS			
A1	T, S, M		Y
A1		D , E , <i>A</i> , <i>S</i>	Y
A2.1	L, M, <i>V, Q, I, A, T</i>		V, L, I, M, A, T
A3	L, M, V, I, S, A, T, F, C, G, D		K, Y, R, H, F, A
A11	V, T, M, L, I, S, A, G, N, C, D, F		K, R, Y, H
A24	Y, F, W, M		F, L, I, W
A*3101	M, V, T, A, L, I, S		R , <i>K</i>
A*3301	M, V, A, L, F, I, S, T		R, K
A*6801	A, V, T, M, S, L,		R, K
B*0702	P		L, M, F, W, Y, A, I, V
B*3501	P		L, M, F, W, Y, I, V, A
B51	P		L, I, V, F, W, Y, A, M
B*5301	P		I, M, F, W, Y, A, L, V
B*5401	P		A, T, I, V, L, M, F, W

Bolded residues are preferred, italicized residues are tolerated: A peptide is considered motif-bearing if it has primary anchors at each primary anchor position for a motif or supermotif as specified in the above table.

TABLE 2

SUPERMOTIFS	POSITION	POSITION	POSITION
	2 (Primary	3 (Primary	C Terminus (Primary
	Anchor)	Anchor)	Anchor)
A1	T, I, <i>L, V, M, S</i>		F, W, Y'
A2	V, Q, A, T	•	I, V, L, M, A, T
A3	V, S, M, A, T, L,		R, K
A24	Y, F, W, I, V, L, M, T		F, I, Y, W, L, M
B7	P		V, I, L, F, M, W, Y, A
B27	R, H, K		F, Y, L, W, M, I, V, A
B58	A, T, S		F, W, Y, L, I, V, M, A
B62	$\mathbf{Q}, \mathbf{L}, I, V, M, P$		F, W, Y, M, I, V, L, A
MOTIFS			+
A1	T, S, M		Y
A1 ·		D , E , <i>A</i> , <i>S</i>	Y
A2.1	V, Q, A, T*		V, L, I, M, A, T
A3.2	L, M, V, I, S, A,		K, Y, R, H, F, A
	$\mathbf{T}, \mathbf{F}, C, G, D$	Ì	
A11	V, T, M, L, I, S,		K, R, H, Y
	A, G, N, C, D, F		, ,,=,,=
A24	Y,F,W		F, L, I, W

*If 2 is V, or Q, the C-term is not L

Bolded residues are preferred, italicized residues are tolerated: A peptide is considered motif-bearing if it has primary anchors at each primary anchor position for a motif or supermotif as specified in the above table.

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		1	অ	ത	4	<u>ত</u>	9	6	∞]	C-terminus
UPERI	SUPERMOTIFS						·			
A1			1° Anchor T,I,L,V,M,S							1° Anchor F, W, Y
¥2			1° Anchor L,I,V,M,A, T.O			·				1° Anchor L,LV,M,A,T
£8.	реперет		1° Anchor V,S,M,A,T,	Y,F,W, (4/5)			Y,F,W, (3/5)	Y,F,W, (4/5)	P, (4/5)	1°Anchor R,K
J	deleterious	D,E (3/5); P, (5/5)		D,E, (4/5)					,	
A24			1° Anchor Y,F,W,I,V, L,M,T						·	1º Anchor F,I,Y,W,L,M
B7 1	репеделед	F,W,Y (5/5) L,I,V,M, (3/5)	1°Anchor P	F,W,Y (4/5)					F,W,Y, (3/5)	<u>1°Anchor</u> V,I,L,F,M,W,Y,A
Ü	deleterious	D,B (3/5); P(5/5); G(4/5); A(3/5); Q,N, (3/5)				D,B, (3/5)	G, (4/5)	Q,N, (4/5)	D,E, (4/5)	
B27			1° Anchor R,H,K							1° Anchor F,Y,L,W,M,V,A
B44			1° Anchor E,D				,			1º Anchor F,W,Y,L,I,M,V,A
	-		1° Anchor							1° Anchor

TABLE 3 (Continued)

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	C- termin us	1°Anchor Y				1°Anchor V,L,I,M,A,T	
	or C-terminus	Y,F,W,	Q,N,	1ºAnchor V,L,I,M,A,T			R,К, H,
	<u></u>	ტ	P,r,H,K, Q,N,	ď		F,Y,W,L, V,I,M,	D,B,R,K, R,K,H, H,
1.		P,G	an e e e e e e e e e e e e e e e e e e e	₹	Ď,E,R,K,H		R,K,H,
	ष्	:	ර		R,K,H	ග්	•
POSITION	<u>ऽ</u>	Y,F,W,	ę,	Y,F,W,			
	<u>₹</u>	₹		S,T,C,		ర	R,K,H,A,
	ത	D,E,A,S		Y,F,W,	D,E,R,K,H	L,V,I,M,	D,E,
	खं	S,T,C,L,I,V M,	R,H,K,D,E, P,Y,F,W,	1°Anchor L,M,I,V,Q, A,T		1°Anchor L,M,I,V,Q, A,T	
	T]	Y,F,W,	R,H,K,	Y,F,W,	D,E,P,	A,Y,F,W,	D,5,P,
		ртегетед	deleterious	A2.1 preferred 9-mer	deleterious	preferred	deleterious
		A1 10-mer		A2.1 9-mer		A2.1 10-mer	

W	U	20	US/	O 1	125	U2

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TABLE 3 (Continued)

	-					POSITION	N(•	٠	
		. ~. []	ි මා	മ	क	<u>~</u>	9		<u></u>	or C-terminus	C. termin us
A3	ргебепед	R,H,K,	1°Anchor L,M,V,LS, A,T,F,C,G D	Y,F,W,	TABLE 4 (Continued) P.R.H.K.Y. A, F.W,	ontinued) A,	Y,F,W,		Ъ,	1°Anchor K,Y,R,H,F,A	
	deleterious	D,E,P,		D,E			وجو المبعد "				
A11	. preferred	.	1°Anchor V,T,L,M,I, S,A,G,N, <i>C,</i> <i>D,F</i>	Y,F,W,	Y,FW,	Ą	Y,F,W,	Y,FW,	e,	1°Anchor K,RY,H	
	deleterious	D,E,P,	:				•• <u>•</u> •••••••••••••••••••••••••••••••••	¥	ල්		
A24 9-mer	preferred	Y,F,W,R,H,K,	1°Anchor Y,F,W,M		S,T,C			Y,F,W,	Y,F,W,	1°Anchor F,L,I,W	
	deleterious	D,B,G,		D,E,	ග්	Q,N,P,	D,E,R,H,K,	ග්	A,Q,N,		
A24 10-mer	preferred:		1°Anchor Y,F,W,M		ъ,	Y,F,W,P,		ъ,			1°Anchol F,L,I,W
	deleterious			G,D,E	N,Q	R,H,K	D,B	Ą	'n	D,E,A,	
A3101	A3101 preferred	R,H,K,	1°Anchor M,V,T,A,L, I,S	Y,F,W,	e,		Y,F,W,	Y,F,W,	A,P,	1°Anchor R,K	

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9 C. or termin C-terminus us		1°Anchor R,K		1°Anchor R,K		1°Anchor L,M,F, W,Y,A,		1°Anchor L,M,F,W,Y,J,	
∞	D,E,			e,	Α,	P,A,	D,E,		
161	D,E,	A,Y,F,W		Y,F,W,		R,H,K,	Q,N,	F,W,Y,	
NO	D,E,					R,H,K,	G,D,E,	į	ර
POSITION [5]	A,D,E,			Y,F,W,L,I, V,M	R,H,K,	R,H,K,	D,E,		ර
4							D,E,		
<u>ლ</u>	D,E,	Y,F,W	D,E		D,E,G,	R,H,K,	D,B,P,	F,W,Y,	
ব্যে		l'Anchor M,V,A,L,F, I,S,T		<u>1°Anchor</u> A,V,T,M,S, <i>L,I</i>		1°Anchor P		1°Anchor P	
11	D,B,P,	-	G,P	Y,F,W,S,T,C,	G,P,	R,H,K,F,W,Y,	D,E,Q,N,P,	F,W,Y,L,I,V,M,	A,G,P,
	deleterious · D,E,P,	ргебетед	deleterious G,P	A6801 preferred	deleterious	B0702 preferred	deleterious	B3501 preferred	deleterious A,G,P,
		A3301		A6801		B0702		B3501	

TABLE 3 (Continued)

	C. terrarin us				·		
	or C-terminus	1°Anchor L,I,V,F,W, Y,A,M		1°Anchor I,M,F,W,Y, A,L,V		1°Anchox A,T,I,V,L, M,F,W,Y	
•		F,W,Y,	G,D,E,	F,W,Y,	D,E,	F,W,Y,A,P,	D,E,
		ෆ්	D,E,Q,N,	L,I,V,M,F, W,Y,	R,H,K,Q,N,	A,L,I,V,M,	Q,N,D,G,E,
N	9	ra Md r Tudmus *	Q,	··	უ ′		D,E,
POSITION	5	F,W,Y,	D,E,	F,W,Y,		L,I,V,M,	R,H,K,D,E, D,E,
	4	S,T,C,		s,T,C,			
	<u>E)</u>	F,W,Y,		F,W,Y,		F,W,Y,L,I,V M,	G,D,E,S,T,C,
	ලා	1°Anchor P		1% Anchor P		1°Anchor P	
		L,I,V,M,F,W,Y,	A,G.P,D,E,R,H,K, S,T,C,	L,I,V,M,F,W,Y,	A,G,P,Q,N,	F,W,Y,	G,P,Q,N,D,E,
		ргеветед	deleterious	B5301 preferred	deleterious	B5401 preferred	deleterious
		B51		B5301		B5401	

Italicized residues indicate "tolerated" residues.
The information in Table II is specific for 9-mers unless otherwise specified.
Secondary anchor specificities are designated for each position independently.

Table 4

HLA-supertype A1 A2 A3 A24 A24 B7	Verified* -A*0101, A*2501, A*2601, A*2602, A*3201	Dradictad
A1 A2 A3 A24 B7	· A*0101, A*2501, A*2601, A*2602, A*3201	
A2 A3 A24 B7		A*0102, A*2604, A*3601, A*4301, A*8001
A3 A24 B7	A*0206, A*0201, A*0202, A*0203, A*0204, A*0205, A*0206, A*0207, A*0209, A*0214, A*6802, A*6901	A*0208, A*0210, A*0211, A*0212, A*0213
A24 B7	A*0301, A*1101, A*3101, A*3301, A*6801	A*0302, A*1102, A*2603, A*3302, A*3303, A*3401, A*3402, A*6601, A*6602, A*7401
B7	A*2301, A*2402, A*3001	A*2403, A*2404, A*3002, A*3003
B#3	B*3501. B*3502. B*3503. B*3503	B*1511, B*4201, B*5901
B*3	B*3507, B*3508, B*5101, B*5102, B*5103, B*5104, B*5105.	
B*5;	B*5301, B*5401, B*5501, B*5502, B*5601, B*5602, B*6701,	
	B*7801	
B27	B*1401, B*1402, B*1509, B*2702, B*2703,	B*2701, B*2707, B*2708, B*3802, B*3903, B*3904,
	D 2/04, D 2/03, B 2/00, B 3801, B 3901, B 3902, B 7/301	B*3905, B*4801, B*4802, B*1510, B*1518, B*1503
D44	B*1801, B*1802, B*3701, B*4402, B*4403, B*4404, B*4001, B*4002, B*4006	B*4101, B*4501, B*4701, B*4901, B*5001
. B58	B*5701, B*5702, B*5801, B*5802, B*1516,	
	B*1517	
B62	B*1501, B*1502, B*1513, B*5201	B*1301, B*1302, B*1504, B*1505, B*1506, B*1507.
		B*1515, B*1520, B*1521, B*1512, B*1514, B*1510

Verified alleles include alleles whose specificity has been determined by pool sequencing analysis, peptide binding assays, or by analysis of the sequences of CTL epitopes.

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Predicted alleles are alleles whose specificity is predicted on the basis of B and F pocket structure to overlap with the supertype specificity. ج.

Non-conserved (13.1-20)

Semi-conserved (7.1-13)

Conserved (1-7)

Table 5. Compiled rankings and similarity assignments.

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然何 Non-conserved (13.1-20)

Semi-conserved (7.1-13)

Conserved (1-7)

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Table 6. Recognition of variant peptides by CTL generated after one and five stimulations with the parent peptide.

A. Gag	386	VLAI	EAMSQ\	Λ
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	Binding	1 Stimulation	5 Stimulations
Peptide Sequence	IC50 (nM)	(SU)	(SU)
VLAEAMSQV	49.9	31.6	222.0
VLAEAMSQ A	23.8	17.0	133.5
VLAEAMSQI	70.9	21.2	246.1
VLAEAMS K V	230.5	10.8	130.9
VLAEAMS KA	69.4	NT	36.6
ILAEAMSQA	29.3	4.0	49.7
ILAEAMSKA	72.4		
VLAEAMAAA	17	16.3	90.3

B. Env 134 (KLTPLC	VTL)		
KLTPLCVTL	77.0	278.4	683.6
KITPLCVTL	461	231.8	700.8
QLTPLCVTL	63.6	166.2	361.5
QI TPLCVTL	975	105.0	166.9
ELTPLCVTL	7190	91.7	100.0
KLTPFCVTL	87.3	36.1	75.4
KLTPLCVIL	356	77.2	29.1
KLTPLCVPL	14.6	9.6	14.8

Table 7. Conservation of EP HIV-1090 epitopes across clades, calculated as identity or immunological conservation

	_		<u> Total</u>	<u>C</u>	lade B	<u>C</u>	<u>lade C</u>
Protein	Sequence	Identity	Imm. Cons.	Identity	Imm. Cons.	Identity	imm. Cons.
Pol 498	ILKEPVHGV	62%	87%	77%	86%	74%	95%
Gag 386	VLAEAMSQV	32%	93%	68%	91%	5%	94%
Pol 448	KLVGKLNWA	95%	96%	95%	95%	95%	98%
Env 134	KLTPLCVTL	80%	93%	90%	95%	89%	98%
Vpr 62	RILQQLLFI	51%	93%	68%	91%	61%	95%
Nef 221	LTFGWCFKL	49%	74%	77%	91%	47%	81%
Gag 271	MTNNPPIPV	20%	25%	91%	95%	8%	19%
Env 47	VTVYYGVPVWK	59%	87%	95%	100%	61%	92%
Pol 929	QMAVFIHNFK	84%	98%	100%	100%	94%	97%
Pol 98	VTIKIGGQLK	11%	71%	59%	91%	2%	89%
Pol 971	KIQNFRVYYR	80%	86%	91%	95%	79%	89%
Pol 347	AIFQSSMTK	53%	75%	77%	82%	44%	79%
Pol 722	KVYLAWVPAHK .	14%	97%	82%	- 95%	3%	97%-
Env 61	TTLFCASDAK	72%	89%	90%	100%	69%	92%
Nef 94	FPVRPQVPL	81%	93%	77%	95%	82%	94%
Gag 545	YPLASLRSLF	7%	29%	45%	95%	0%	0%
Rev 75	VPLQLPPL	44%	78%	68%	77%	27%	79%
Env 259	IPIHYCAPA	74%	95%	45%	95%	79%	97%
Gag 237	HPVHAGPIA	27%	54%	68%	95%	44%	94%
Pol 893	IPYNPQSQGVV	92%	96%	82%	95%	240%	97%
Env 250	CPKVSFEPI	45%	91%	77%	100%	45%	97%
	Mean	54%	81%	77%	93%	59%	84%
	n=	167		22		62	70

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Protein	Sequence	70000000			type			
		Conserved Epitopes*	All	A	В	С	D	G
Pol 498	ILKEPVHGV	ILKEPVHGV	104	1	17	46	2	2
		ILREPVHGV	12			5		1
		ILKEPVHGA	10			2	1	1
		ILKDPVHGV	8	5		1		1
		KLKEPVHGV	3			1		
		ILKDPVHGA	2	2				
		ILKNPVHGV	2					
Gag 386	VLAEAMSQV	VLAEAMSQA	67	2	1	36	3	3
		VLAEAMSQV	54	17	15	3	1	+ -
		VLAEAMSOT	11			9	-	├
		VLAEAMSHA	6	+-	\vdash	4	ļ	
	·	ILAEAMSQV	5	-	3	 -		├
		ILAEAMSQA	3	 	 	2		-
		VLAEAMSHV	2					
Pol 448	KLVGKLNWA	777 770777 3773	ļ		ļ			
FOT 440	VTA GVTIAMY	KLVGKLNWA	158	9	21	59	3	3
		KLIGKLNWA	1		}			
Env 134	KLTPLCVTL	KLTPLCVTL	134	8	19	55		
		QLTPLCVTL	5	2	1			
		KLTPLCVAL	3					-
		RLTPLCVTL	3		 	3		
		KITPLCVTL	2					
Vpr 62	RILQQLLFI	RILQQLLFI	86	1	15	28	4	3
		RILQQLLFV	21	2		2		
		RTLQQLLFI	10	 	2	4		-
		RTLQQLLFV	10	 		1		 -
		RILQQLLFT	6	+-	-	2		-
		RMLQQLLFI	4	 	1	3		 -
		RVLQQLLFI	3			3		
Nef 221	LTECHCERT	7 magrages						
MCT 77T	LTFGWCFKL	LTFGWCFKL	82	8	17	29		3
+		LTFGWCYKL	31	1	_2	17		
		LTLGWCFKL	4			1		
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		MTNNPPIPV	33	Τ	20	5	т	
		MTSNPPVPV	26	1		15	+	1
		MTGNPPIPV	15	5		1	+	╅╧
		MTGNPPVPV	9	† <u> </u>	 	5	+	+
		MTNNPPVPV	6	+		6	+	╅──
		MTANPPVPV	3	+		2	┼	+
			1	 	<u> </u>	 ~	+	
Env 47	VTVYYGVPVWK	VTVYYGVPVWK	99	6	21	30	3	╁
		VTVYYGVPVWR	40	1		18	+	+
		VTIYYGVPVWK	2			 	╁──	+
				1		 	┧	
Pol 929	QMAVFIHNFK	QMAVFIHNFK	153	10	22	58	4	3
		QMAVFVHNFK	3	†		1	 -	+
 		QMAVFVHNYK	2			\vdash	┼~	+
i						1	 	
Pol 98	VTIKIGGQLK	VSIKVGGQIK	30			30	 	
		VTIKIGGQLK	18		13	1		-
		VTVKIGGQLK	11	1	1		1	-
		VTVRIGGQLK	6	3		 	 	
		VSIKVGGQIR	6	 		6	†	
		VSIRVGGQIK	4			4	 	†
		VTIRIGGQLK	3	1	2	1	 	╁┈┈
		VTVKIGGQLR	3	1		 	1	
		VTVKVGGQLK	3			 	 	
					-	1	 	
Pol 971	KIQNFRVYYR	KIQNFRVYYR	133	6	20	49	4	3
Pol 347	ATEOCOMPY	3.770.00						
POI 347	AIFQSSMTK	AIFQSSMTK	88	5	17	27	3	2
		AIFQCSMTK	19		2	5		
		AIFQSSMTR	13		1	11		1
		AIFQASMTK	9	1_1		1		
·		SIFQSSMTK	9	3		6		
		AIFQYSMTK	4					
		AIFQSTMTK	2			1		
Pol 722	KVYLAWVPAHK	KVYLSWVPAHK	 	<u> </u>				ļ
101 /22	HATTIMATE THE	RVYLSWVPAHK	56	8		12	1	3
			55			41		
		KVYLAWVPAHK KVYLTWVPAHK	23	1	18		3	
		KIYLSWVPAHK	5		_2_		ļ	<u> </u>
		RIYLSWVPAHK	5 5			3		
		KIYLAWVPAHK	2			4	<u> </u>	<u> </u>
		QVYLTWVPAHK	2		_1			
		QVIDIWVPARK						
		·		 -				
Env 61	TITLE CACDAGE	mmr Top Green						
EIIA OT	TTLFCASDAK	TTLFCASDAK	121	9	19	41	4	1
		ATLFCASDAK	7			7		

	+	YPLASLKSLF*	13		5		2	
Gag 54	5 YPLASLRSLF	EPLTSLKSLF*	22	1		21		
				 	 	2		
		FPVRPQVPV	4	 	 			├
		FPVKPQVPL	9	1	3	2		- -
Nef 94	4 FPVRPQVPL	FPVRPQVPL	135	8	17	51	4	3
			f	†—-	 	- -		
		ATLFCASDAR	2	1		2	 - 	├──
		TTLFCASEAK	2		1			+
		TTLFCASDAR	2		2	 		1
		PTLFCASDAK	2		 	ī		+
		TILFCASDAK	6				Π	T-

*These two would not be predicted to XR. Would choose both to get maximal population coverage.

	Sobaracion cove							
		YPLASLRSLF	11	T	10	T	\top	T
		YPLTSLKSLF	10	\top	1	╁╌╴	2	1
•		YPPLASLKSL	10	 	╁╌	 	+-	 -
		YPLTSLRSLF	6	1-	4	 	 	+
		YPPLTSLKSL	6	1	 -	+	+-	┼
					\top	1	 	+
Rev 75	VPLQLPPL	VPLQLPPL	64	5	15	7	4	2
		VPLQLPPI	34	2	1	19	┼╌	+-
		VPFQLPPI	26	 	 	23	╁	
		VPFQLPPL	3	\top	1		 	1
				 		 	 	+
Env 259	IPIHYCAPA	IPIHYCAPA	124	8	10	49	3	2
		IPIHYCTPA	25	1	8	8	 	 ~
		IPIHFCAPA	3		1	1	1	+
				1	 		+-	
Gag 237	HPVHAGPIA	HPVHAGPIA	39	1	15	21	1	
		HPVHAGPVA	34	1	3	27	2	
		HPVQAGPVA	12	 	3	6	1	
		HPIHAGPIA	2		 	2	 - -	
				1		 =		
Pol 893	IPYNPQSQGVV	IPYNPQSQGVV	153	9	18	60	4	3
		IPYNPQSQGVI	5	1	3		 -	-
		IPYNPQSQGAV	2	 	<u> </u>	1		
				 		 		
Env 250	CPKVSFEPI	CPKVSFEPI	50	5	17	3	2	0
		CPKVSFDPI	42			33		<u> </u>
<u>_</u> <u>_</u>		CPKVTFDPI	16	 -		13		1
		CPKVTFEPI	13	3		1	 -	1
		CPKISFDPI	9	 		5		
		CPKISFEPI	7		4		1	
1		CPKVSWDPI	6					
		CPKVSFQPI	4	 	1			
			_	1 1		1	- 1	

^{*} The preferred epitopes are shown in bold

Table 9. Predicted immunological conservation for a panel of HLA-A2 resta

Source	Parent	HPV	Variant	SEQ ID	Predicted	Measured
	Sequence	Strain	Sequences	NO	Immunogenicity	
					genrerey	city (SU)
HPV16.E7.86	TLGIVCPI	16	TLGIVCPI		+	103.7
		18	TLSFVCPW		<u> </u>	103.7
		31	SFGIVCPN			
		33	TVNIVCPT		-	
		45	TLSFVCPW			
		52	TLQVVCPG	1	-	
		56	ALTVTCPL		-	
		58	TCTIVCPS			
HPV31.E6.11	KLHELSSAL	16	KLPQLCTEL			
		18	KLPDLCTEL		_	
		31	KLHELSSAL		+	26.3
		33	TLHDLCQAL		_	
		45	KLPDLCTEL		_	·
		52	TLHELCEVL		_	
-		56	SLHHLSEVL		-	
		58	TLHDLCQAL		· · -	
TTDTT3 0 / 4 5 - 7 6						
HPV18/45.E6 .13	KLPDLCTEL	16	KLPQLCTEL		+	15.7
		18	KLPDLCTEL		+	212.7
		31	KLHELSSAL			212.7
		33	TLHDLCQAL		-	
		45	KLPDLCTEL		+	205.1
		52	TLHELCEVL			203.1
		56	SLHHLSEVL			
		58	TLHDLCQAL		-	
UDVED DC 10						
HPV52.E6.18	VLEESVHEI	16	ELQTTIHDI		-	
· · · · · · · · · · · · · · · · · · ·		18	ELNTSLQDI		-	
		31	ALEIPYDEL			
		33	ALETTIHNI		_	···
		45	ELNTSLQDV		-	
		52	VLEESVHEI		+	64.1
		56	VLEIPLIDL		-	
		58	ALETSVHEI		_	
IDIII O E C AE						
HPV18.E6.47	FAFKDLFVV	16	FAFRDLCIV		-	
		18	FAFKDLFVV		+	350.6
		31	FAFTDLTIV		- .	
		33	FAFADLTVV		_	31.4
		45	FAFKDLCIV		-	176.9
		52	FLFTDLRIV		-	
		56	FACTELKLV		-	
<u>i</u>		58	FVFADLRIV		-	7.7
IDV21 75 in						
IPV31.E6.45	FAFTDLTIV	16	FAFRDLCIV		_	

	1	18	FAFKDLFVV	_	
		31	FAFTDLTIV	+	20.7
		33	FAFADLTVV	+	11.6
		45	FAFKDLCIV		
		52	FLFTDLRIV		
		56	FACTELKLV		
		58	FVFADLRIV	_	
HPV52.E6.45	FLFTDLRIV	16	FAFRDLCIV	-	
		18	FAFKDLFVV	_	
·		31	FAFTDLTIV	_	
		33	FAFADLTVV	-	
		45	FAFKDLCIV		
		52	FLFTDLRIV	+	421.4
		56	FACTELKLV		57.5
		58	FVFADLRIV	+	94.1
HPV58.E6.45	FVFADLRIV	16	FAFRDLCIV	-	
		18	FAFKDLFVV	_	
		31	FAFTDLTIV	-	
		33	FAFADLTVV	-	
		45	FAFKDLCIV	-	
		52	FLFTDLRIV	+	13.3
		56	FACTELKLV		21.0
		58	FVFADLRIV	+	62.8
HPV18.E7.7	TLQDIVLHL	16	TLHEYMLDL		
		18	TLQDIVLHL	+	99.0
		31	TLQDYVLDL	_	
		33	TLKEYVLDL	_	
		45	TLQEIVLHL	+	
		52	TIKDYILDL		
		56	TLQDVVLEL	+	38.0
		58	TLREYILDL	_	
HPV16.E7.82	LLMGTLGIV	16	LLMGTLGIV	+	518.5
		18	LFLNTLSFV	-	
		31	LLMGSFGIV	+	90.1
		33	LLMGTVNIV	-	
		45	LFLSTLSFV	+	
		52	MLLGTLQVV	_	
		56	LLMGALTVT	+	
		58	LLMGTCTIV	_	
HPV33.E7.81	LLMGTVNIV	16	LLMGTLGIV	-	
		18	LFLNTLSFV		
		31	LLMGSFGIV	- , .	
		33	LLMGTVNIV	+	179.4
		45	LFLSTLSFV	_	
		52	MLLGTLQVV	+	
		56	LLMGALTVT		20.8
		58	LLMGTCTIV	_	
HPV52.E7.84	MLLGTLQVV	16	LLMGTLGIV		

	ļ	18	LFLNTLSFV		
		31	LLMGSFGIV		
		33	LLMGTVNIV	+	
		45	LFLSTLSFV	-	
		52	MLLGTLQVV	+	99.8
		56	LLMGALTVT	 	33.8
		58	LLMGTCTIV		
				· 	
HPV56.E7.89	LLMGALTVT	16	LLMGTLGIV		
		18	LFLNTLSFV		
		31	LLMGSFGIV		
		33	LLMGTVNIV	+	
		45	LFLSTLSFV	 	
		52	MLLGTLQVV		
		56	LLMGALTVT	+	1 262 5
		58	LLMGTCTIV		263.5 43.6
1			 		1 43.6

^{*} Immunogenicity was measured for all variants. Only the positive responses are shown in the table. All other responses were negative.

Table 10. 167 HIV-1 Variants

SEQ ID NO	Sequence Designation	Name	Accession Number	SubType	Country
	92UG037_U51190	92UG037	U51190	Α	UG
A.BY.9	97BL006_AF1932	97BL006	AF193275	Α .	BY
A.KE.(Q23_AF004885	Q23	AF004885	A	KE
A.SE.S	SE6594_AF06967	SE6594	AF069672	A	SE
A.SE.S	SE7253_AF06967	SE7253	AF069670	A	SE
A.SE.S	SE7535_AF06967	SE7535	AF069671	A	SE
A.SE.S	SE8538_AF06966	SE8538	AF069669	A	SE
A.SE.S	SE8891_AF06967	SE8891	AF069673	A	SE
A.UG.	U455_M62320	U455	M62320	A	ÜĞ
	JGSE8131_AF107	UGSE8131	AF107771	A	SE
A2.CY	.94CY017.41_AF	94CY017.41	AF286237	A2	CY
	.97CDKTB48_AF2	97CDKTB48	AF286238	A2	CD
	97KR004_AF286	97KR004	AF286239	A2D	KR
A2G.C	D.97CDKP58_AF3	97CDKP58	AF316544	A2G	CD
AC.IN.	.21301_AF06715	21301	AF067156	AC	IN
	V.92RW009_U8882	92RW009	U88823	AC	RW
	E.SE9488_AF0714	SE9488	AF071474	AC	SE
ACD.S	SE.SE8603_AF075	SE8603	AF075702	ACD	SE
	BE.VI1035_AJ276	VI1035	AJ276595	ACG	BE
	.SE6954_AF0757	SE6954	AF075701	AD	SE
	.SE7108_AF0714	SE7108	AF071473	AD	SE
ADHK	.NO.97NOGIL3_AJ	97NOGIL3	AJ237565	ADHK	NO
ADK.C	D.MAL_X04415	MAL	X04415	ADK	CD
	9.92NG003_U8882	92NG003	U88825	AG	NG
	E.VI1197_AJ2765	VI1197	AJ276596	AG	BE
	.GA.VI354_AF076	VI354	AF076474	AGHU	GA
	D.Z321_U76035	Z321	U76035	AGU	CD
	/.BW2117_AF1921	BW2117	AF192135	AJ	BW
	3202A21_U34604	3202A21	U34604	В	NL
	3C_L02317	BC	L02317	В	US
	CAM1_D10112	CAM1	D10112	В	GB
	D31_U43096	D31	U43096	В	DE
	DH123_AF069140	DH123	AF069140	В	US
	GB8.C1_Y13716	GB8	AJ271445	В	GB
B.DE.H	HAN_U43141	HAN	U43141	В	DE
	1XB2_K03455	HXB2	K03455	В	FR
B.US.J	IRCSF_M38429	JRCSF	M38429	В	US
	MANC_U23487	MANC	U23487	В	GB
	MNCG_M17449	MNCG	M17449	В	US
	DYI,_M26727	OYI	M26727	В	GA
	P896_U39362	P896	M96155	В	US
	RF_M17451	RF	M17451	В	US
	RL42_U71182	RL42	U71182	В	CN
	SF2_K02007	SF2	K02007	В	US
	TWCYS_AF086817	TWCYS	AF086817	В	TW
	/H_AF146728	VH	AF146728	В	AU
	VEAU160_U21135	WEAU160	U21135	В	US
	VK_AF224507	WK	AF224507	В	KR
B.US.V	VR27_U26546	WR27	U26546	В	US

B.US.YU2_M93258	2410			
BF1.BR.93BR029.4 AF	YU2	M93258	В	US
C.BR.92BR025_U52953	93BR029.4	AF005495	BF1	BR
C.IN.93IN101_AB0238	92BR025	U52953	С	BR
	93IN101	AB023804	С	IN
C.IN.93IN904_AF0671	93IN904	AF067157	С	IN
C.IN.93IN999_AF0671	931N999	AF067154	С	IN
C.IN.94IN11246_AF06	94IN11246	AF067159	C	IN
C.IN.95IN21068_AF06	95IN21068	AF067155	C	IN
C.BW.96BW0402_AF110	96BW0402	AF110962	Č	BW
C.BW.96BW1210_AF110	96BW1210	AF110972	Č	BW
C.BW.96BW15B03_AF11	96BW15B03	AF110973	Č	BW
C.ET.ETH2220_U46016	ETH2220	U46016	. C	ET
C.BW.96BW11B01_AF11	96BW11	AF110969	· C	BW
C.BW.00BW0762.1 AF44	00BW0762.1	AF443088	Č	
C.BW.00BW0768.20 AF44	00BW0768.20	AF443089	C	BW
C.BW.00BW0874.21 AF44	00BW0874.21	AF443090		BW
C.BW.00BW1471.27_AF44	00BW1471.27	AF443091	C	BW
C.BW.00BW1616.2 AF44	00BW1616.2	AF443091 AF443092	C	BW
C.BW.00BW1686.8 AF44	00BW1686.8		C	BW
C.BW.00BW1759.3_AF44	00BW1759.3	AF443093	C	BW
C.BW.00BW1773.2 AF44	00BW1773.2	AF443094	C	BW
C.BW.00BW1783.5_AF44	00BW1773.2 00BW1783.5	AF443095	C	BW
C.BW.00BW1795.6_AF44		AF443096	Č	BW
C.BW.00BW1811.3 AF44	00BW1795.6	AF443097	C	BW
C.BW.00BW1859.5_AF44	00BW1811.3	AF443098	C	BW
C.BW.00BW1880.2_AF44	00BW1859.5	AF443099	С	BW
C.BW.00BW1921.13_AF44	00BW1880.2	AF443100	С	BW
C.BW.00BW2036.1_AF44	00BW1921.13	AF443101	С	BW
C.BW.00BW2036.1_AF44	00BW2036.1	AF443102	С	BW
C.BW.00BW2063.6_AF44	00BW2063.6	AF443103	С	BW
C.BW.00BW2087.2_AF44	00BW2087.2	AF443104	С	BW
C.BW.00BW2127.214_AF44	00BW2127.214	AF443105	С	BW
C.BW.00BW2128.3_AF44	00BW2128.3	AF443106	С	BW
C.BW.00BW2276.7_AF44	00BW2276.7	AF443107	С	BW
C.BW.00BW3819.3_AF44	00BW3819.3	AF443108	С	BW
C.BW.00BW3842.8_AF44	00BW3842.8	AF443109	С	BW
C.BW.00BW3871.3_AF44	00BW3871.3	AF443110	C	BW
C.BW.00BW3876.9_AF44	00BW3876.9	AF443111	Č	BW
C.BW.00BW3886.8_AF44	00BW3886.8	AF443112	Ċ	BW
C.BW.00BW3891.6_AF44	00BW3891.6	AF443113	Ċ	BW
C.BW.00BW3970.2_AF44	00BW3970.2	AF443114	Ċ	BW
C.BW.00BW5031.1_AF44	00BW5031.1	AF443115	Č	BW
C.BW.96BW01B21_AF11	96BW01B21	AF110960	Č	BW
C.BW.96BW0407_AF11	96BW0407	AF110963	Č	BW
C.BW.96BW0502_AF11	96BW0502	AF110967	Č	BW
C.BW.96BW06.J4_AF29	96BW06.J4	AF290028	č	BW
C.BW.96BW11.06_AF11	96BW11.06	AF110970	č	BW
C.BW.96BW1210_AF11	96BW1210	AF110972	č	BW
C.BW.96BW15B03_AF11	96BW15B03	AF110973	Č	
C.BW.96BW16.26 AF11	96BW16.26	AF110978	C	BW
C.BW.96BW17A09_AF11	96BW17A09	AF110978	C	BW
C.BW.96BWMO1.5_AF44	96BWMO1.5	AF443074		BW
C.BW.96BWMO3.2_AF44	96BWMO3.2	AF443075	C	BW
C.BW.98BWMC12.2 AF44	98BWMC12.2	AF443075 AF443076	C	BW
C.BW.98BWMC13.4 AF44	98BWMC13.4		C	BW
C.BW.98BWMC14.a3_AF44	98BWMC14.a3	AF443077	C	BW
	000VV IVIC 14.83	AF443078	С	BW

C.BW.98BWMO14.10 AF44	98BWMO14.10	AF443079	С	BW
C.BW.98BWMO18.d5 AF44	98BWMO18.d5	AF443080	C	BW
C.BW.98BWMO36.a5 AF44	98BWMO36.a5	AF443081	С	BW
C.BW.98BWMO37.d5 AF44	98BWMO37.d5	AF443082	С	BW
C.BW.99BW3932.12 AF44	99BW3932.12	AF443083	С	BW
C.BW.99BW4642.4_AF44	99BW4642.4	AF443084	С	BW
C.BW.99BW4745.8_AF44	99BW4745.8	AF443085	С	BW
C.BW.99BW4754.7_AF44	99BW4754.7	AF443086	С	BW
C.BW.99BWMC16.8_AF44	99BWMC16.8	AF443087	С	BW
CRF01_AE.CF.90CF11697	90CF11697	AF197340	CRF01 AE	CF
CRF01_AE.CF.90CF402_U5	90CF402	U51188	CRF01_AE	CF
CRF01_AE.CF.90CF4071_A	90CF4071	AF197341	CRF01_AE	CF
CRF01_AE.TH.93TH057_AF	93TH057	AF197338	CRF01_AE	TH
CRF01_AE.TH.93TH065_AF	93TH065	AF197339	CRF01_AE	TH
CRF01_AE.TH.93TH253_U5	93TH253	U51189	CRF01_AE	TH
CRF01_AE.TH.95TNIH047_	95TNIH047	AB032741	CRF01_AE	TH
CRF01_AE.TH.CM240_U547	CM240	U54771	CRF01_AE	TH
CRF01_AE.TH.TH022_AB03	TH022	AB032740	CRF01_AE	TH
CRF02_AG.SN.98SEMP1211	98SEMP1211	AJ251056	CRF02_AG	SN
CRF02_AG.FR.DJ263_AF06	DJ263	AF063223	CRF02_AG	FR
CRF02_AG.FR.DJ264_AF06	DJ264	AF063224	CRF02_AG	FR
CRF02_AG.GH.G829_AF184	G829	AF184155	CRF02_AG	GH
CRF02_AG.NG.IBNG_L3910	IBNG	L39106	CRF02_AG	NG
CRF02_AG.SE.SE7812_AF1	SE7812	AF107770	CRF02_AG	SE
CRF03_AB.RU.KAL153-2_A	KAL153-2	AF193276	CRF03_AB	RU
CRF03_AB.RU.RU98001_AF	RU98001	AF193277	CRF03_AB	RU
CRF04_cpx.CY.94CY032-3	94CY032-3	AF049337	CRF04_cpx	CY
CRF04_cpx.GR.97PVCH_AF	97PVCH	AF119820	CRF04_cpx	GR
CRF04_cpx.GR.97PVMY_AF	97PVMY	AF119819	CRF04_cpx	GR
CRF05_DF.BE.VI1310_AF1	VI1310	AF193253	CRF05_DF	BE
CRF05_DF.BE.VI961_AF07	VI961	AF076998	CRF05_DF	BE
CRF06_cpx.ML.95ML127_A	95ML127	AJ288982	CRF06_cpx	ML
CRF06_cpx.ML.95ML84_AJ	95ML84	AJ245481	CRF06_cpx	ML
CRF06_cpx.SN.97SE1078_	97SE1078	AJ288981	CRF06_cpx	SN
CRF06_cpx.AU.BFP90_AF0	BFP90	AF064699	CRF06_cpx	AU
CRF11_cpx.CM.97CM-MP81	97CM-MP818	AJ291718	CRF11_cpx	CM
CRF11_cpx.GR.GR17_AF17	GR17	AF179368	CRF11_cpx	GR
D.CD.84ZR085_U88822	84ZR085	U88822	D	CD
D.UG.94UG1141_U8882	94UG1141	U88824	D	UG
D.CD.ELI_K03454	ELI	K03454	D	CD
D.CD.NDK_M27323	NDK	M27323	D	CD
F1.BR.93BR020.1_AF0	93BR020.1	AF005494	F1	BR
F1.FI.FIN9363_AF075	FIN9363	AF075703	F1	FI
F1.FR.MP411_AJ24923	MP411 ·	AJ249238	F1	FR
F1.BE.VI850_AF07733	VI850	AF077336	F1	BE
F2.CM.MP257_AJ24923	MP257	AJ249237	F2	CM
F2KU.BE.VI1126_AF07	VI1126	AF076475	F2KU	BE
G.NG.92NG083_U88826	92NG083	U88826	G	NG
G.BE.DRCBL_AF084936	DRCBL	AF084936	G	BE
G.SE.SE6165_AF06164	SE6165	AF061642	G	SE
H.CF.90CF056_AF0054	90CF056	AF005496	H	CF
H.BE.VI991_AF190127	VI991	AF190127	Н	BE
H.BE.VI997_AF190128	VI997	AF190128	H	BE
J.SE.SE7022_AF08239	SE7022	AF082395	J	SE
J.SE.SE7887_AF08239	SE7887	AF082394	J	SE

K.CD.EQTB11C_AJ2492	EQTB11C	AJ249235	K	CD
K.CM.MP535_AJ249239	MP535	AJ249239	K	CM
N.CM.YBF30_AJ006022	YBF30	AJ006022	N	CM
O.SN.99SE-MP1299_ZX	SEMP1299	AJ302646	0	SN
O.SN.99SE-MP1300_ZX	SEMP1300	AJ302647	0	SN
O.CM.ANT70_L20587	ANT70	L20587	0	CM
O.CM.MVP5180_L20571	MVP5180	L20571	0	CM
U.CD83CD0031	83CD0031	AF286236	1.1	CD

Table 11. HIV Gag Sequence Alignment GCG Multiple Sequence File. Written by Omiga 1.1

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Name:	00BW0762_1	Len:	556	Check:		Weight:	1.00
Name:	00BW0768_2	Len:	556	Check:		Weight:	1.00
Name:	00BW0874_2	Len:	556	Check:		Weight:	1.00
Name:	00BW1471_2	Len:	556	Check:		Weight:	1.00
Name:	00BW1616_2	Len:	556	Check:		Weight:	
Name:	00BW1686_8	Len:	556	Check:	7822	Weight:	1.00
Name:	00BW1759_3	Len:	556	Check:	7777	Weight:	1.00
Name:	00BW1773_2	Len:	556	Check:	9727	Weight:	1.00
Name:	00BW1783_5	Len:	556	Check:	9681	Weight:	1.00
Name:	00BW1795_6	Len:	556	Check:	9667	Weight:	1.00
Name:	00BW1811_3	Len:	556	Check:		Weight:	1.00
Name:	00BW1859_5	Len:	556	Check:	7320	Weight:	1.00
Name:	00BW1880_2	Len:	556	Check:	1603	Weight:	1.00
Name:	00BW1921_1	Len:	556	Check:	-	Weight:	1.00
Name:	00BW2036_1	Len:	556	Check:	2591	Weight:	1.00
Name:	00BW2063_6	Len:	556	Check:		Weight:	1.00
Name:	00BW2087_2	Len:	556	Check:	5183	Weight:	1.00
Name:	00BW2127_2	Len:	556	Check:	5469	Weight:	1.00
Name:	00BW2128_3	Len:	556		9621	Weight:	1.00
Name:	00BW2276_7	Len:	556	Check:		Weight:	1.00
Name:	00BW3819_3	Len:	556	Check:		Weight:	1.00
Name:	00BW3842_8	Len:	556	Check:	9312	Weight:	1.00
Name:	00BW3871_3	Len:	556	Check:		Weight:	1.00
Name:	00BW3876_9	Len:	556	Check:	773	Weight:	1.00
Name:	00BW3886_8	Len:	556	Check:		Weight:	1.00
Name:	00BW3891_6	Len:	556	Check:	129	Weight:	1.00
Name:	00BW3970_2	Len:	556	Check:	_	Weight:	1.00
Name:	00BW5031_1	Len:	556	Check:	3966	Weight:	1.00
Name:	96BW01B21	Len:	556	Check:		Weight:	1.00
Name:	96BW0407	Len:	556	Check:	_	Weight:	1.00
Name:	96BW0502	Len:	556	Check:	6402	Weight:	1.00
Name:	96BW06_J4	Len:	556	Check:	254	Weight:	1.00
Name:	96BW11_06	Len:	556	Check:		Weight:	1.00
Name:	96BW1210	Len:	556	Check:		Weight:	1.00
Name:	96BW15B03	Len:	556	Check:	6072	Weight:	1.00
Name:	96BW16_26	Len:	556	Check:	9409	Weight:	1.00
Name:	96BW17A09	Len:	556	Check:	2723	Weight:	1.00
Name:	96BWMO1_5	Len:	556	Check:	5051	Weight:	1.00
Name:	96BWMO3_2	Len:	556		496	Weight:	1.00
Name:	98BWMC12_2	Len:	556	Check:	1164	Weight:	1.00
Name:	98BWMC13_4	Len:	556	Check:	4961	Weight:	1.00
Name:	·	Len:	556			Weight:	1.00
	98BWM014_1	Len:	556	Check:		Weight:	1.00
Name:		Len:	556	Check:		Weight:	1.00
	98BWMO36_a	Len:	556	Check:		Weight:	1.00
	98BWM037_d	Len:	556	Check:		Weight:	1.00
Name:	_	Len:	556	Check:		Weight:	1.00
	99BW4642_4	Len:	556	Check:		Weight:	1.00
	99BW4745_8	Len:	556	Check:		_	1.00
	99BW4754_7	Len:	556	Check:		_	1.00
	99BWMC16_8	Len:	556	Check:			1.00
	A2_CD_97CD	Len:	556	Check:		Weight:	1.00
	A2_CY_94CY	Len:	556	Check:			1.00
	A2D97KR	Len:	556	Check:		Weight:	1.00
	A2G_CD_97C	Len:	556	Check:		Weight:	1.00
	A_BY_97BL0	Len:	556	Check:		Weight:	1.00
wame:	A_KE_Q23_A	Len:	556	Check:	2442	Weight:	1.00

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Name: A SE SE659
                        Len:
                                556 Check: 8612 Weight:
                                                             1.00
Name: A SE SE725
                        Len:
                                556 Check: 8315 Weight:
                                                             1.00
Name: A_SE_SE753
                      Len:
                        Len:
                                556 Check: 2915 Weight:
                                                             1.00
Name: A_SE_SE853
                               556 Check: 9112 Weight:
                                                             1.00
Name: A_SE_SE889
                      Len: 556 Check: 8732 Weight:
                                                             1.00
Name: A_SE_UGSE8
                      Len: 556 Check: 8696 Weight:
                                                             1.00
Name: A_UG_92UG0
                      Len: 556 Check: 6290 Weight: 1.00
Name: A_UG_U455_
                      Len: 556 Check: 164 Weight:
Len: 556 Check: 8482 Weight:
                                                            1.00
Name: AC_IN_2130
Name: AC_RW_92RW
                                                            1.00
                      Len: 556 Check: 977 Weight:
                                                            1.00
Name: AC_SE_SE94
                      Len:
                               556 Check: 8752 Weight:
                                                            1.00
Name: ACD_SE_SE8
                      Len: 556 Check: 9655 Weight:
                                                            1.00
Name: ACG BE VI1
                               556 Check: 3777 Weight:
                      Len:
                                                             1.00
Name: AD_SE_SE69
                      Len:
                               556 Check: 732 Weight:
                                                            1.00
Name: AD_SE SE71
                      Len:
                               556 Check: 8506 Weight:
                                                             1.00
Name: ADHK NO 97
                      Len: 556 Check: 5257 Weight:
                                                             1.00
Name: ADK_CD_MAL
                      Len: 556 Check: 5301 Weight:
                                                             1.00
Name: AG BE VI11
                      Len: 556 Check: 1610 Weight:
                                                             1.00
                      Len: 556 Check: 4188 Weight:
Name: AG NG 92NG
                                                             1.00
Name: AGHU GA VI
                        Len: 556 Check: 8242 Weight:
                                                             1.00
Name: AGU_CD_Z32
                      Len: 556 Check: 2601 Weight:
                                                             1.00
Name: AJ_BW_BW21
                      Len: 556 Check: 8389 Weight:
                                                             1.00
Name: B_AU_VH AF
                      Len: 556 Check: 9166 Weight:
                                                             1.00
Name: B_CN_RL42_
                      Len: 556 Check: 3865 Weight:
                                                             1.00
                      Len: 556 Check: 9464 Weight:
Name: B_DE_D31_U
                                                             1.00
                      Len: 556 Check: 6999 Weight:
Name: B_DE_HAN_U
                                                             1.00
                      Len: 556 Check: 141 Weight: 1.00
Name: B_FR_HXB2_
Name: B_GA_OYI__
                      Len: 556 Check: 7578 Weight:
                                                             1.00
                      Len: 556 Check: 8023 Weight:
Name: B_GB_CAM1_
                                                             1.00
                      Len: 556 Check: 2675 Weight:
Name: B GB GB8 A
                                                            1.00
                      Len: 556 Check: 8961 Weight:
Name: B GB MANC
                      Len: 556 Check: 8961 Weight: 1.00
Len: 556 Check: 7372 Weight: 1.00
Len: 556 Check: 7117 Weight: 1.00
Len: 556 Check: 8767 Weight: 1.00
Len: 556 Check: 7091 Weight: 1.00
Len: 556 Check: 5049 Weight: 1.00
                                                             1.00
Name: B KR WK AF
Name: B_NL_3202A
Name: B_TW_TWCYS
Name: B US BC LO
Name: B US DH123
                               556 Check: 975 Weight: 1.00
Name: B US JRCSF
                       Len:
Name: B_US_MNCG_
                               556 Check: 688 Weight: 1.00
                      Len:
                               556 Check: 8809 Weight: 1.00
556 Check: 9306 Weight: 1.00
Name: B US P896
                       Len:
Name: B US RF M1
                       Len:
                               556 Check: 9799 Weight: 1.00
Name: B US SF2 K
                       Len:
                               556 Check: 9636 Weight:
Name: B US WEAU1
                       Len:
                                                            1.00
                               556 Check: 3349 Weight:
Name: B US WR27
                       Len:
                                                            1.00
                               556 Check: 8828 Weight:
Name: B US YU2 M
                       Len:
                                                            1.00
                               556 Check: 7935 Weight: 1.00
Name: BF1 BR 93B
                       Len:
                               556 Check: 4429 Weight:
Name: C BR 92BR0
                       Len:
                                                            1.00
                               556 Check: 1550 Weight: 1.00
Name: C BW 96BW0
                       Len:
Name: C_BW_96BW1
                               556 Check: 7158 Weight: 1.00
                       Len:
                               556 Check: 6016 Weight: 1.00
Name: C_BW 96BW1
                       Len:
                               556 Check: 6016 Weight: 1.00

556 Check: 6072 Weight: 1.00

556 Check: 4314 Weight: 1.00

556 Check: 6959 Weight: 1.00

556 Check: 9362 Weight: 1.00

556 Check: 3298 Weight: 1.00
Name: C_BW 96BW1
                       Len:
Name: C_ET_ETH22
                       Len:
Name: C_IN_93IN1
                       Len:
Name: C IN 93IN9
                       Len:
Name: C_IN_93IN9
                       Len:
Name: C_IN_94IN1
Name: C_IN_95IN2
                       Len:
                               556 Check: 6744 Weight:
                                                            1.00
                       Len:
                               556 Check: 8559 Weight: 1.00
Name: CRF01 AE C
                       Len:
                               556 Check: 4763 Weight:
                                                            1.00
Name: CRF01 AE C
                       Len:
                               556 Check: 4315 Weight:
                                                            1.00
Name: CRF01_AE C
                       Len:
                               556 Check: 3920 Weight:
                                                            1.00
Name: CRF01_AE_T
                       Len:
                               556
                                    Check: 5074
                                                  Weight:
                                                            1.00
Name: CRF01 AE T
                       Len:
                               556
                                    Check: 4026 Weight:
                                                            1.00
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11
00BW0762_1 MGARASILRG .EKLDKWEKI RLRPGGRKHY MIKHIVWASR ELERFALNPG
00BW0768_2 MGARASVLRG .EKLDKWEKI RLRPGGKKHY MLKHLVWASR ELERFALNPG
00BW0874_2 MGARASILRG .GKLDTWEKI RLRPGGKKQY MIKHLVWASR ELERFALNPG
00BW1471_2 MGARASILRG .GKLDTWEKI RLRPGGKKQY MIKHLVWASR ELERFALNPG
00BW1616_2 MGARASILRG .GKLDTWEKI RLRPGGKKHY MLKHLVWASR ELERFALNPG
00BW1686_8 MGARASILRG .GKLDTWEKI RLRPGGKKHY MIKHLVWASR ELERFALNPG
00BW1759_3 MGARASILRG .GKLDKWERI RLRPGGKKHY MIKHLVWASR ELERFALNPG
00BW1773_2 MGASASILRG .GKLDKWEKI RLRPGGKKKY RLKHLVWASR ELERFALNPG
```

00DW1702					
00BW1783_5			RLRPGGKKH	Y MMKHLVWAST	R ELERFALNPG
00BW1795_6		CICIDIANTIAL	r KTKLGGKKH	Y MMKHIAWACI	ET EDEAT ARE
00BW1811_3		. Ormprably	KLKPGGKKH	Υ ΜΙΚΉΤΑπιλου	DI DIDENTARA
00BW1859_5		· TICHDAMEKI	- KTKLGEKKG	Y MIKHIMWACE	PERDERTAINS
00BW1880_2		. OICHDIAME KI	. KLKPGGKKO	Y MTKHINWACE	PT PD DATATE
00BW1921_1		·OTCOT MEVI	. KLKPGGKKR	Y MIKHITER	DI DODAY STA
00BW2036_1		· TIVID I MEKT	KLRPGGKKH	Y MLKHLVWASR	PLEDERTALNED
00BW2063_6		· OIGHDYMEKT	RLRPGGKKO	Y MIKHLVWASR	ELEBERTALNPG
00BW2087_2					
00BW2127_2		VRVDDWMRKT	RLRPGGRKK	Y RIKHIJAWACD	DI Director
00BW2128_3		· COTOVATVI	KURPGGKKH	Y MIKTHANDOO	THE PROPERTY OF A SHAPE OF
00BW2276_7		· DICHOMENI	KLRPGGKKH	Y MLKHLVWASR	ELEKFALNPG
00BW3819_3		· OKTOWMEKT	RLRPGGKKH	Y RLKHLVWASR	ELERFALNPG
00BW3842_8		.EKLDTWERI	KLRPGGKKH	MLKHIVWASR	ELERFALNPG
00BW3871 <u>3</u>		.GKLDTWEKI	RLRPGGKKH	MLKHLVWASR	ELERFALNPG
00BW3876_9		.GKLDTWEKT	RI'B DGGKKRI	MVKHLVWASR	ELERFALNPG
00BW3886 <u>8</u>	MGARASILRG	.GKLDKWEKT	PI-PDCCKKC	MIKHIIWASR	ELERFALNPG
00BW3891_6	MGARASILRG	.GKLDKWEKT	PI.PDCCKKK	MIKHIIWASR	ELERFALNPG
00BW3970_2	MGARASILRG	GKLDAWERT	KIDDCCKKI	MLKHLVWASR	ELERFALNSG
00BW5031 1	MGARASILRG	GKT DRWEKT	DIDDOGRAM	MLKHLVWASR	ELERFALNPS
96BW01B21	MGARASILRG	GKTDOWEKT	PI PROGRAM	RLKHLVWASR	ELERFALNPS
96BW0407	MGARASILRG	GKT DAWERT	PLDDGGKKCY	MLKHLVWASR	ELERFALNPG
96BW0502	MGARASILRG	FKT-DKWEKT	RIRPGGKKCY	MMKHLVWASR	ELEKFALNPG
96BW06 J4	MGARASILRG	GNI-DTWEKT	RIAPGGKKHY	MLKHLVWASR	ELEGFALNPG
96BW11 <u>0</u> 6	MGARASILRG	GKIDKMEKI	RURPGGKKHY	MLKHLVWASR	ELERFALNPG
96BW1210	MGARASILRG	EKI DIMEKI	RLRPGGKKRY	MIKHLVWASR	ELERFALNPG
96BW15B03	MGARASISRG	· TIMETT MEVT	KUKPGGKKRV	MMKTITATIA	T17
96BW16 26	MGARASILRG	TYGMICHT	RORPGGKKCY	MIKHTIMACO	DI DINATAN
96BW17A09	MGARASILRG	· OKTIDIOM PLY	KURPGGKKRY	MIKHILIMIX CD	DI DE SESSE
96BWM01 5	MGARASILRR	· CYCLT MEVT	KTKEGGKKHA	MT.KTIT.JJJJJ CD	DIT HID TO SERVE
96BWM03 2	MGARASILRG	· OKTONION PKT	RURPGGKKRY	MTKHILLMIN CD	TOT TOTAL TARREST
98BWMC12 2	MGARASILRG	•	KURPGGKKHY	MIKHTIMIXOD	THE WILLIAM STREET
98BWMC13 4	MGARASILRG	TYANICULA	KTKEGGKKOA	RTKHTJWJACD	DI DODDESSE
98BWMC14 a	MGARASILRG	· Orangiancial	RURPGGKKHY	MMKTIT.TIIA CD	TOT OR TO THE
98BWM014 1	MGARASILRG	TYGMYCHAIC	REREGERRHY	MT.KUT.TUN.TM	THE THE PARTY OF THE
98BWM018_d	MGARASILRG	· OKTION WE'KT	KUKFGGKKOY	RI.KHI.tmix.co	TOT TIP TO THE TANK
98BWM036_a	MGARASILRG	· CKTTO I MEKT	VTIKEGGKKHA	MMKHT. Truth on	107 III II I
98BWM037_d		· CICIDIAEVI	KTKFGGKKbA	MIKHIJWAco	DI DDDATADA
99BW3932 1		· OKTIDAMPKT	RURPGGKKHY	MT.KTT.\mix cro	TOT TIPE TO THE SECOND
99BW4642_4		· OKTIOE MEVT	KUKPGGKKKY	RIKHTAWACD	DI DUDATANA
99BW4745_8		· TITTLING VI	KTKKKKK	MT. VIII THURS OF	
99BW4754 7					
99BWMC16 8					
A2_CD_97CD					
A2_CY_94CY					
A2D97KR					
A2G_CD_97C					
A_BY_97BL0					
A_KE_Q23_A A_SE_SE659					
A_SE_SE725		OTCHOWN DVT	KUKPGGKKKY	RIKUTION	OT
A_SE_SE753					
A_SE_SE853		CITTOTAMENT	KLIKPGKKKKY	RMKDT tranco	77
A_SE_SE889		DIGORANGIAN 1	KLKPGGKKKY	KI.KIIMunin i	77
A_SE_UGSE8		OTCHDWINT I	CLIRPGGNKKY	RUKUTAMAA	77
A_UG_92UG0		CITTOWN PUT I	CLIRPGGKKKY	RIKUT TIME OF	TT
A_UG_U455_		TAMPART !	CLRPGGNKKY	KIKHIJunon +	77 T-1
AC_IN_2130		CICHOVADYT I	CLRPGGKKHY	MIKTITITATA	17 TT TO THE PARTY OF
AC_RW_92RW					
AC_SE_SE94					
ACD_SE_SE8	MGARASILSG .	GKLDAWEKI R	LRPGGKKKY	RIKHTAWAGE -	TDREALNPS
					NES

ACG_BE_VI1	MGARASVLTG	.GKLDTWER	L BI'BBVGKKK	Y RMKLLVWASR	
AD_SE_SE69	MGARASVLSG		OLRPGGKKR	Y RLKHIVWASR	ELERFAINPG
AD_SE_SE71	RASVLSG	.GKLDAWEK	RLRPGGRKK	KLKHIVWASR	ELERFALNPG
ADHK_NO_97	MGARASILSG	.GKLDKWEK	RLRPGGKKO	RLKHLVWASR	BLERFALNPS
ADK_CD_MAL	MGARASVLSG	- GVTDWMFV]	L KLRPGGKKK	Ζ ΡΙΚΉΤΑπικου	DI COURTING
AG_BE_VI11	MGARASVLSG	.GKLDAWEKI	RLRPGGKKK	RMKHLVWASR	ELERFALNPG
AG_NG_92NG	MGARASVLSG	.GKLDAWEKI	RLRPGGKKK	RMKHLVWASR	ELECTRAINPG
AGHU_GA_VI	MGARASILSG	.GKLDAWEKI	RLRPGGKKK	QIKHIVWASR	ELERGALNPD
AGU_CD_Z32	MGARASVLSG	.GKLDKWEKI	RLRPGGKKOY	KLKHIVWASR	ELEDERINEG
AJ_BW_BW21	MGARASVLSG	· GVTDWMEKI	. RLRPGGKKOY	RMKHIJMAGD	PI PDPATARO
B_AU_VH_AF	MGARASVLSG	· GETDKMEKT	. KLRPGGKKTY	KIKHTIMAGD	PI.PDPAINIDG
B_CN_RL42_	MGARASVLSG	· GÖTDYMPYT	. RLRPGGKKKY	RIKHTAWACD	PT PD PAINTO
B_DE_D31_U	MGARASVLSG	· GETDKMRKI	. RLRPGGKKKY	PIKHTIMACD	DI DDBSIDIO
B_DE_HAN_U	MGARASVLSG	· GETIDVMEVI	. KLKPGGKKKY	$OI_1KHTVMNCD$	PLEDESTATES
B_FR_HXB2_	MGARASVLSG	· GETDYMPYT	. RURPGGKKKY	KLKHTVWASP	PT.PDPX tated
B_GA_OYI	MGARASVLSG	· GRIDDVMEVI	RURPGGKKKY		DI DDDA TARA
B_GB_CAM1_	MGARASVLSG	· GETTOVMEKT	. RURPGGKKKY	KIKHIIMAGD	DI DODAMA
B_GB_GB8_A	MGARASVLSG	· GETTINKMEKI	. RURPGGKKKY	RLKHVVWASD	ELEDEN IMIDA
B_GB_MANC_	MGARASVLSG	· GKUDKWEKI	RTKEGGKKKK	KLKHTVWACD	PI.PDPMMATA
B_KR_WK_AF	MGARASILSG	· GEPPŐMEKT	RLRPGGKKKY	RLKHIJWAGD	FT.FDFAINIDG
B_NL_3202A	MGARASVLSG	· GETTOKMEKT	RLRPGGKKRY	KIKHTWWACD	PI.PD PATATOO
B_TW_TWCYS	MGARASILSA	.GELUKWERV	RLRPGGKKKY	RLKHTWWASP	RI.PDFAINIDG
B_US_BC_L0	MGARASVLSG	· GVTDVMFVT	RUKPGGKKKY	KTKHIJMIACD	DI DUDATORA
B_US_DH123	MGARASVLSG	· GVTDSMRKT	RLRPGGKKKY	KIKHIMAACD	DI DDDSINS
B_US_JRCSF	MGARASVLSG	- GETINKMEKT	RTKERRKKKA	DI KITITUMO O D	THE THE PARTY OF
B_US_MNCG_	MGARASVLSG	· GEIDKMFNI	RTKERRKKKA	KI Kunnanaco	DY DDDD rows
B_US_P896_	MGARASVLSG	· GETDYMEKT	KUKPGGKKKY	KTKHTVWACD	TT. TO FIXTAING
B_US_RF_M1	MGARASVLSG	TYANYULUD.	RURPRGKKRY	KIKHIVWASD	TT.TDTAINING
B_US_SF2_K	MGARASVLSG	· GETTVMFVT	KTKLGGKKKA	KIKHTIWACD	PT.PPPAINING
B_US_WEAU1	MGARASVLSG	. GETTNERT	RLRPGGNKKY	KI'KHLIMIYGD	מתנתות ות ות
B_US_WR27_ B_US_YU2_M	MGARASMLSG	· GETDKMEKT	RLRPGGKKKY	RIKHIJWACD	TI.PDPAINIDG
B_05_102_M BF1_BR_93B	MGARASVLSA	· GETDYMEYT	KTKLGGKKOA	RLKHTVWASD	FT.FDFATDDC
C_BR_92BR0	MGARASVISG	· GETTNYMRXT	RLRPGGHKKV	RIKHTIMACD	DI DDDAINTO
C_BW_96BW0	MGARASILRG MGARASILRG	· GVTDAMEKI	KLKPGGKKHY	MMKHTJJJJJACD	ET EDESTROOM
C_BW_96BW1	MGARASILRG	· GYTDYMFYT	KTKLGGKKOA	RIKHIJWACD	TI. TO TAT MOO
C_BW_96BW1	MGARASILRG	· GIVIDIMEKT	KTKLGGKKKK	MIKHTAWASP	ELEDEVI MUC
C_BW_96BW1	MGARASIERG	· EKMDIMEKI	RUKPGGKKRY	MMKHTWMAGD	ET. ENTERT ATENT
C_ET_ETH22	MGARASILRG	• EVTOIMEKT	RSRPGGKKCY	MLKHTVWASP	ELEDENT MOO
C_IN_93IN1	MGARASILRG	· EVTDAMEKT	KLRPGGKKHY	MLKHTWWAND	ELEVENT NOD
C_IN_93IN9	MGARASILRG	-GKLDKWERI	RLRPGGKKHY	MLKHLVWASR	ELERFALNPG
C_IN_93IN9	MGARASILRG	• EVED KMEKI	RLRPGGKKHY	MLKHLVWASR	ELDRFALNPG
C_IN_94IN1	MGARASILRG	CKIDAMEKI	RLRPGGKKHY	MLKHLVWASR	ELDRFALNPG
C_IN_95IN2	MGARASTIRG	GKIDKWEKI	RLRPGGKKHY	MLKHLVWASR	ELEKFALNPG
CRF01 AE C	MGARASVISG	CKIDAWEKI	RLRPGGKKRY	MLKHLVWASR	ELDRFAVNPG
CRF01_AE_C	MGARASILSG	GKT DAWEKT	RLRPGGKKKY PI PDCGGKKY	RMKHLVWASR	ELERFALNPG
CRF01_AE_C	MGARASVLSG	.GKI DAWEKT	DI.DDCCKKOY	RMKHLVWASR RLKHLVWASR	ELERFALNPG
CRF01 AE T	MSARASVLSG	. EKT NAWEKT	DI DOCODEES	KLKHLVWASR KLKHLVWASR	ELERFALNPG
CRF01 AE T	MGARASVLSG	. KI DALEKT	DI.BDCCVVVV	KUKHLVWASR KMKHLVWASR	ELEKFALNPG
CRF01_AE_T	MGARASVLSG	.GKLDAWEKT	BI'BBCCKKKA	KMKHLVWASR	ELERFALNPG
CRF01_AE_T	MGAKASVLSG	.GKLDAWEKT	PT.PDGGDWWV	HLKHIVWASR	ELERFALNPG
CRF01 AE T	MGARASVLSG	.GKLDAWEKT	BI'BBGGBRAA	RLKHLVWASR	ELERFALNPG
CRF01_AE_T	TOTAL	• GVTDAMEKI	RIBPGGPKKV	DMKULLITATION	TT
CRF02_AG_F	MGARASVLSG	.GKLDSWEKI	RLRPGGKKKV	DI.KUIIITAAN	TT TT TT
CRF02_AG_F	TAGET OF A TIPO	· GVTTDSMEKT	RIBDACKKKV	DI.KUIT TILIN OR .	
CRF02_AG_G	SYLL O'S A TIKG	• GOLDIWEKT	RUBBCCKKK	KMET TIMES OF	
CRF02_AG_N	TOTA CAMP A TIPG	· GVTDAMEK I	RIBERRETE	DI.KIII IMIA OD .	
CRF02_AG_S	TICHE OF A TICHE	· GVTDAMEKI	RIRPCCKKKV	DI.KUT trans	
CRF02_AG_S	TOTO A TIDG	· GVTDAMEKT	KUKPGGKKKV	DI.KUTAMAN ON A	
CRF03_AB_R	THE CAST A TIPE	• GKLDAWEKI	RINDRAKAKA	DIKUT trus on .	
CRF03_AB_R	MGARASVLSG	.GKLDAWEKI	RLRPGGKKKY	RIKHLVWASR I	ELEBERTALNES
				VIMASK	PURKENTINES

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CRF04_cpx_ MGARASVLSG .GKLDAWERI RLRPGGKKKY RLKHLVWASR ELERFALNPG
 CRF04_cpx MGARASVLSG .GKLDAWERI RLRPGGKKKY RLKHLVWASR ELERFALNPG
 CRF04_CPX MGARASVLSG .GRLDAWEKI RLRPGGKKRY RIKHLIWASR ELERFALNPG CRF05_DF_B MGARASVLSG .GKLDAWEKI RLRPGGKKKY RLKHLVWASR ELERFALNPG
 CRF05_DF_B MGARASVLSG .GKLDAWEKI RLRPGGKKKY RLKHIVWASR ELERFAINPG
 CRF06_cpx_ MGARASVLSG .GKLDEWEKI RLRPGGKKKY KMKHLVWASR ELERFAINPG
 CRF06_cpx_ MGARASVLSG .GKLDEWEKI RLRPGGKKKY RLKHLVWASR ELERFALNPS
 CRF06_cpx_ MGARASVLSG .GKLDEWEKI RLRPGGKKKY RMKHLVWASR ELERFALNPG
 CRF06_cpx_ MGARASVLSG .GKLDEWEKI RLRPGGKKKY RLKHLVWASR ELDRFALNPG
 CRF11_cpx MGARASVLSG .GKLDSWEKI RLRPGGKKKY RLKHLVWASR ELERFALNPS
 CRF11_CPX_ MGARASVLSG .GKLDAWEKI RLRPGGKKKY RLKHLVWASR ELERFALNPS
D_CD_84ZR0 MGARASVLSG .GKLDAWEKI RLRPGGKKKY KLKHIVWASR ELERFALNPG
 D_CD_ELI_K MGARASVLSG .GKLDKWEKI RLRPGGKKKY RLKHIVWASR ELERYALNPG
 D_CD_NDK_M MGARASVLSG .GKLDTWERI RLRPGGKKKY ALKHLIWASR ELERFTLNPG
 D UG 94UG1 MGARASVLSG .GKLDEWEKI RLRPGGKKKY RLKHLVWASR ELERFALNPG
 F1_BE_VI85 MGARASILSG .GKLDEWEKI QLRPGGKKRY KMKHLIWASR ELERFALDPG
 F1_BR_93BR MGARASVLSG .GKLDAWEKI RLRPGGKKKY RLKHLVWASR ELERFALDPG
 F1_FI_FIN9 MGARASVLSG .GKLDAWEKI RLRPGGKKQY RIKHLVWASR ELERFAIDPG
F1_FR_MP41 MGARASVLSG .GKLDAWERI RLRPGGKKKY RMKHLVWASR ELERFAVDPG
F2_CM_MP25 MGARASVLSG .GKLDAWEKI RLRPGGKKKY RLKHIVWASR ELKRFALNPG
F2KU_BE_VI MGARASVLSG .GKLDSWEKI RLRPGGRKKY RLKHLVWASR ELERFALNPG
 G_BE_DRCBL MGARASVLSG .GKLDAWEKI RLRPGGKKRY RMKHLVWASR ELDRFALNPG
 G_NG_92NG0 VGARASVLSG .GKLDSWEKI RLRPGGRKKY KLKHIVWASR ELGRFALNRD
G_SE_SE616 MGARASVLTG .GKLDAWEKI RLRPGGRKSY KIKHLVWASR ELERFALNPD
G_SE_SE616 MGARASVLTG .GKLDAWEKI RLRPGGRKSY KIKHLVWASR ELERFALNPD MGARASVLSG .GKLDAWEKI RLRPGGRKKY RLKHLVWASR ELERFALNPD MGARASVLSG .GRLDTLEKI RLRPGGKKKY RLKHLVWASR ELERFALNPG MGARASVLSG .GKLDAWEKI RLRPGGKKKY RLKHLVWASR ELERFALNPG J_SE_SE702 MGARASILSG .GKLDDWEKI RLRPGGKKCY RIKHLVWASR ELERFALNPG J_SE_SE788 MGARASILSG .GKLDDWEKI RLRPGGKKCY RIKHLVWASR ELDRFALNPG K_CD_EQTB1 MGARASVLSG .GKLDDWEKI RLRPGGKKKY RIKHLVWASR ELDRFALNPG MGARASVLSG .GKLDAWEKI QLRPGGKKKY RLKHLVWASR ELERFALNPN K_CM_MP535 MGARASVLSG .GKLDAWEKI RLRPGGKKKY KLKHLVWASR ELERFALNPG MGARASVLTG .GKLDQWESI YLRPGGKKKY RMKHLVWASR ELERFACNPG O_CM_ANT70 MGASASVLTG .SKLDAWEQI RLKPGSKKKY RLKHLVWASR ELERFACNPE MGARASVLTG .SKLDAWEQI RLKPGSKKKY RLKHLVWASR ELERFACNPE O_SN_99SE MGARASVLSG .SKLDTWEQI RLKPGCKKKY RLKHLVWASR ELERFACNPE ELERFACNPE SKLDAWEQI RLKPGCKKKY RLKHLVWASR ELERFACNPE
 O_SN_99SE MGARASVLSG .SKLDTWEQI RLKPGCKKKY RLKHLVWASR ELERFACNPE
U_CD__83C MGARASVLSG .GKLDAWEKI RLRPGGRKKY RLKHLVWASR ELEKFAINPG
00BW0762_1 LLETSEGCKQ IIKQLQPALQ TGTEELRSLY NTVATLYCVH KKIDVRDTKE
00BW0768_2 LLETSEGCKQ IIKQLQPALQ TGTEELRSLF NTVATPYCVH EKIEVRDTKE
00BW0874_2 LLETAEGCRQ IIKQLHPALQ TGTEELRSLF NTVATLYCVH RGIEIRDTKE
00BW1471_2 LLETADGCKQ IIKQLQPALQ TGTEELRSLF NTVATLYCVH KGIKVQDTKE
00BW1616_2 LLETSDGCKQ IMKQLQPALQ TGTEELKSLF NTVATLYCVH ANIDVRDTKE
00BW1759_3 LLETAEGCKQ IIQQLQPALK TGTEELKSLF NTVATLYCVH KEIDVRDTKE
00BW1773_2 LLETAEGCKQ IIKQLQPALQ TGTEELKSLF NTVATLYCVH KEIDVRDTKE
00BW1773_2 LLETAEGCKQ IIKQLQPALQ TGTEELKSLF NTVATLYCVH AGIEVRDTKE
00BW1783_5 LLETSEGCKQ IIQQLQPALK TGTEELRSLY NTVATLYCVH AKIEVRDTKE
00BW1795_6 LLETSEGCKQ IMKQLQPALQ TGTEELRSLF NTVATLYCVH EGIDVQDTKE
00BW1811_3 LLETAAGCKQ IIRQLHPALQ TGTEELRSLF NTVATLYCVH AEIEVRDTKE
00BW1859_5 LLETSEGCRQ IMRQLQPALQ TGTEELRSLF NTVATLYCVH EKIPVRDTKE
00BW1880_2 LLETAEGCKQ IIRQLHPALQ TGTEELRSLF NTVATLYCVH KDIEVRDTKE
00BW1921_1 LLETSEGCKQ IMKQLQPALQ TGTEELRSLY NTVATLYCVH KGIEVQDTKE
00BW2036_1 LLETSEGCKQ IMKQLQPALQ TGTEELRSLY NTVATLYCVH KGIEVQDTKE
 00BW2036_1 LLETSEGCKQ IMKQLQPALQ TGTEELRSLF NTVATLYCVH KKIQVQDTKE
 00BW2063_6 LLETADGCKQ IMKQLQPALQ TGTEELRSLY NTVATLYCVH EGIDVRDTKE
00BW2087_2 LLETSEGCKQ IIKQLQPALQ TGTEELRSLF NTVATLYCVH KGIEVRDTKE
00BW2127_2 LLETSEGCRQ IIKQLQPALQ TGTEELRSLY NTIAVLYCAH QRIKVQDTKE
00BW2128_3 LLETSEGCKQ IIKQLHPALQ TGTEELKSLY NTVAVLYCVH AGIAVRDTKE
00BW2276_7 LLETSEGCKQ IMQQLQPALK TGTEELISLY NTVATLYCVH EKIQVQDTKE
00BW3819_3 LLETSEGCKQ IIKQLQPALQ TGTEELRSLY NTVATLYCVH QKIEIRDTKE
00BW3842_8 LMETSEGCKQ IIQQLQPALQ TGTEELRSLF NTIATLYCVH KGIKVQDTKE
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00BW3871_3	LLETSDGCKQ	IIKQLQPALQ	TGTEELRSLF	NTVATLYCVH	KGIKVQDTKE
00BW3876_9	PPELSEGGEO	IMKQLQPALQ	TGTEELRSLY	NTVATLYCVH	ADTEWNOVE
00BW3886_8	LLETAEGCTQ	IMKQLQPALQ	TGTEELRSLF	NTVATLYCVH	AGTDUDDTER
00BW3891_6	PPELSDGCKÖ	IIQQLQPALK	TGTEELRSLY	NTVATLYCVH	MATETODIES
00BW3970_2	LLETSEGCKQ	IIKQLQPALQ	TGTEELKSLF	NTVATLYCVH	EKIEIDDÆKE
00BW5031_1	LLETADGCKQ	IIKQLQPALK	TGTEELRSLY	NTVATT.VCVE	TATETADIAE
96BW01B21	LLETSEGCKQ	IMEQLQPALQ	TGTEELKSLY	NTVATT.VCVII	MIEMBOURE
96BW0407	LLETSEGCKQ	IIRQLHPALQ	TGSEELKSLE	MTVATILICVII	ENTEANDER
96BW0502	LLETAEGCKO	IMKQLQPALQ	TGTERLESLY	MULLA TOTAL	PVIEAKDIKE
96BW06_J4	LLETSEGCKO	IMQQLQPALQ	TGTERI.PGI.E	MALINAL ACUAL	AGIEVRDIKE
96BW11 06	LLETSEGCKO	IMKQLQPALQ	TGTEETPGLV	MINATURE	KGTKAÖDJKE
96BW1210	LLETAEGCKO	IMKQLQPALK	TOTERIKOLV	MINATURE	EGIEVQDTKE
96BW15B03	LLETSEGCKO	IMKQLQPALQ	TOTESTICE D	MINATURCAH	EKIEVRDTKE
96BW16_26	LLETSEGCRO	IMIQIQPALK	TOTEGLESUE	MINATURE	EKTKAKDLKE
96BW17A09	LLETAEGCKO	IIKQLQPALQ	TOTERLARIES	MINANTECAH	AGIEVQDTKE
96BWM01 5	LLETSEGCKO	TIKOLOPTIO	TGTEEDVOUT	MINATINGOH	QGIEVRDTKE
96BWMO3 2	LLETSECCKO	IIKOLOPALO	TOTECHESLY	NIVATEXCAH	KGIDVRDTKE
98BWMC12 2	LLETARGCTO	IIKQLQPALQ	TOTEELRSLY	NIVAILYCVH	EKIEVRDTKE
98BWMC13 4	THETERGORO	IMRQLQPALQ	TGTEELRSLY	NTVATLYCVL	KGIKVRDTKE
98BWMC14_a	LLETSECCOO	IMRQLQPAIQ	TGTEELRSLF	NTVATLYCVH	EGIDVKDTKE
98BWM014_1	T.T.ETTA ECCVO	IMKQLQPALQ	TGTEELRSLF	NIVATLYCVH	MGIEVRDTKE
98BWM018 d	LIETREGCRY	IIQQLQPALK	TGTEELRSLF	NTVATLYWVH	KNVEVRDTKE
98BWM036 a	LIETARCOVO	IMKQLQPSIQ	TGTEELRSLY	NTIATLYCVH	EKIEVRDTKE
98BWMO37 d	TIENCEGCKO	ILQQLQPALK	TGTEELKSLY	NTVATLYCVH	QGIEVRDTKE
99BW3932 1	TIEMADGCKO	IMKQLQPALQ	TGTEELKSLF	NTVATLYCVH	EKIEVRDTKE
99BW4642 4	LLETADGCKQ	IIKQLQPAFQ	TGTEEIRSLY	NSIAVLYCVH	RRLTIQDTKE
99BW4745_8	LLETSEGCKQ	IMKQLQPALQ	TGTEELRSLY	NTVATLYCVH	ERIQVRDTKE
	PPELLEGCKÖ	IIRQLQPALQ	TGTEELKSLY	NIVATLYCVH	NNIEIRDTKE
99BW4754_7	LLETAEGCKQ	IIKQLHPALQ	TGTEELRSLY	NTVATLYCVH	NKIEVQDTKE
99BWMC16_8	TTELLECKÖ	IMKQLQPALQ	TGTEELRSLY	NTIATLYCVH	ESIEVRDTKE
A2_CD_97CD	LLETETGCRR	IFGQLQPALE	TGTEELRSLY	NTIAVLYFVH	QKIEVKDTKE
A2_CY_94CY	PPELAEGCKÖ	TIROLOPALO	TGTEELKSLY	NTVVVT.YWVH	OPVINIVATIVE
A2D97KR	PPELSEGCKÖ	IIGQLEPSIK	TGSEEIKSLF	NAVVTLYCVH	ORIEVRDTKE
A2G_CD_97C	LLETAAGCRQ	ILGQLQPALQ	TGTEELRSLY	NTVAVLYCVH	OKTEVKDTKE
A_BY_97BL0	LLETSEGCQQ	ILEQLQPTLK	TGSEELKSLY	NTVATLYCVH	ORIETKDTKE
A_KE_Q23_A	LLETADGCQQ	IMEKLQPALK	TGTEEIKSLF	NTVATLYCVH	ORTDVKDTKE
A_SE_SE659	LLETTEGCQQ	IIEQLQPALN	TGTEEIKSLF	NTVATLYCVH	ORIDVKDTKE
A_SE_SE725	LLETTEGCQQ	IMEQLQSALK	TGTEELRSLF	NTVAVLYCVH	ORIEIKDTKE
A_SE_SE753	LLETAEGCQQ	IMKQLQPALK	TGTEELRSLY	NTVATLYCVH	ORINVTDTKE
A_SE_SE853	LLETTEGCQQ	IIGQLQPAFK	TGTEELKSLY	NTVATLWCVH	ORTDVKDrike
A_SE_SE889	LLETTEGCQQ	IMDKLQPALR	TGTEELRSLY	NTVATLYCVH	OKTAVKDTKE
A_SE_UGSE8	PPELAEGCOO	IIEQLQSAPK	TGTEELRSLY	NTVATIVCVH	OPTDWWDTWE
A_UG_92UG0	PPELLEGCŐŐ	IMEQLQSALR	TGTEELRSLY	NTVATLYCVH	ORTEVADURE
A_UG_U455_	THETAEGCOO	TPGOPODATO	TGTEELRSLY	NTVAVLYCVH	OBIDUKDTKE
AC_IN_2130	DEFISECCE	TIKÖLÖBALÖ	TGTEELRSLH	NTVATLYCVH	AGTETEDTEE
AC_RW_92RW	TPELLEGCKÖ	TMKOLOPALO	TGTDELRSLY	NTVATLYCVH	OKIDUKDTKE
AC_SE_SE94	PPELSEGCÓÓ	TTEOTOBATK	TGTEEIKSLF	NTVATLYCVH	ORTEVEDTE
ACD_SE_SE8	THETTEGCOO	TWDGFGBYFK	TGTEELRSLY	NTVATLWCVH	KRIDVKDTKE
ACG_BE_VI1	PPETAEGCOO	TIEGLÖSTLK	TGSEELKSLF	NTVATIWCVH	TATETEDTE
AD_SE_SE69	PPELAEGCKÖ	IMGQLQPAIQ	TGSEELKSLF	NTVATIVCVH	AKTKVITOTE
AD_SE_SE71	LLETTKGCQQ	IMEQLQPAFK	TGTEELKSLY	NTVATTAYOVH	OUTEMENTARE
ADHK_NO_97	LLETSEGCQQ	VMEQLQPALK	TGSEELKSLF	NLVAVIWOVH	OBIDIANDIAN
ADK_CD_MAL	LLETGEGCQQ	IMEQLQSTLK	TGSEETKSLY	ארייסעדייסעדי	OBIDIANDUAL OKIDAKDIVE
AG_BE_VI11	LLETAEGCOO	IIEQLQSTLR	TGSEELKSLV	NTI ATLACAT	KKI BIND DURAN KWYD A VOLKE
AG_NG_92NG	LLETTEGCOO	IMRQLQPSLQ	TGTEETKSLE	MACAULT ACAU	VATEAKDIKE
AGHU_GA_VI	LLETAEGCOO	IMEQLQSALK	TGSEET.KGT.P	Mulyani Aum	OKIDAMA
AGU_CD_Z32	LLETTEGCOO	ILSQFQPALK	TOURDING TE	MULTINUTTACE	OXYDAKD WE
AJ BW BW21	LLETAEGCOO	IMEQLQSALK	TCSTEETTEET V	MALINAL ASSESSED IN A SERVICION OF SERVICION	ON TRAKDIKE
B_AU_VH_AF	LLETSEGCRO	ILVQLQPSLP	THEYHERD TA	MINISTER STATES	OKTEAKDIKE
B_CN_RL42	LLETSEGCRO	TIROLODATO	THEYHERDY	MINALPACAH	QKIEIRDTKE
B_DE_D31_U	LLETSECCEO	ILEQLOPALO	TOPERTY	MINATIFACAH	LRIEIKDTKE
B_DE_HAN_U	LLETSECCEO	ILGQLQPSLQ		MINATPACAH	QRIEVKDTKE
		IMGQLQPSLQ	TOSEPTKOTA	MINATIFACAH	QKIEVKDTKE

B_FR_HXB2	T T PACEGO	O == =====			
B_GA_OYI	LIETCECON	Q ILGQLQPSLQ) TGSEELRSL	Y NTVATLYCV	H QRIEIKDTKE
B GB CAM1					
B_GB_GB8_A					
B GB MANC					
B KR WK AF					
B NL 3202A					
B_TW_TWCYS					
B_US BC LO					
B US DH123					
B US JRCSF					
B US MINCG					
B_US_P896					
B_US_RF M1					
B_US_SF2_K					
B_US_WEAU1					
B_US_WR27					
B_US_YU2_M					
BF1 BR 93B					
C_BR_92BR0					
C_BW_96BW0					
C BW 96BW1					
C_BW 96BW1					
C_BW_96BW1					
C ET ETH22					
C IN 93IN1					
C_IN_93IN9					
C_IN_93IN9					
C_IN_94IN1					
C_IN_95IN2					
CRF01_AE_C					
CRF01 AE C					
CRF01 AE C					
CRF01_AE_T	LLETAEGCOO	LLEQLOSTLK	TCORRECTS	NTIATLWCVH	QRINVTDTKE
CRF01_AE_T	LLETAEGCOO	LIEQLOSTLK	TOSEELKSLF	NTIATLWCVH	QKIEVKDTKK
CRF01 AE T	LLETAEGCOO	IIEQLQSALK	TCCERT KOT	NIVVILWCAH	QRIDVKDTKE
CRF01 AE T	LLETAEGCOO	LIEQLOSTLK LIEQLOSTLK	TOSEELKSLY	NTIATLWCVH	QRIEVKDTKE
CRF01 AE T	FLETAEGCOO	LIEOLOSTIK	TOSEEPKSPE.	NTIVILMCAH	QRIEVKDTKE
CRF01_AE_T	LLETAEGCOO	IIEQLQSTLK LIGQLQSNLK	TOUREDKSLY	NTVATLWCVH	QRIEVKDTKE
CRF02 AG F					
CRF02 AG F	LLETAEGCOO	LMKQLQSALG	TGSEEDI VOI V	NTIATLWCVH	KRIDIKDTKE
CRF02_AG_G	LLETTEGCOO	ILEQLOPALK	JGSEEDVSTI	N.L.TALTMCAH	QRIDIKDTKE
CRF02_AG_N					
CRF02_AG_S					
CRF02_AG_S					
CRF03_AB_R					
CRF03_AB_R					
CRF04_cpx_					
CRF04_cpx_					
CRF04_cpx_		TIMOHOSILIK	THESERBLECTES	NIT TROTTERS	
CRF05_DF_B					
CRF05_DF_B					
CRF06_cpx_					
CRF11_cpx_					
CRF11_cpx_					
D_CD_84ZRO					
D_CD_NDK_M	LLETSEGCKQ	IIGQLQPSIQ	GSEETROI.V	MUNDULTOWER .	WGTDAKDIKE
		. =		*** AWITHICAH	FKTRAKDIKE

D_UG_94UG1		Q IIRQLQPSIQ	TGSEEIKSLY	NTVVTLVCVE	ERIKVASTKE
F1_BE_VI85		~ TTVOTOBOTIC) TGSKKLKST.	ייי ארבי דנו לנוייול י	
F1_BR_93BR		/ TIGOTOBSTIC) TUSKELKSTV	ለበጥቸ አየድ የድረብ ም	^ ^ * * * * * * * * * * * * * * * * * *
F1_FI_FIN9		TTMOTORSIC	J TUSKRLRST.V	יייי אור	
F1_FR_MP41		Z TTKOPODSPIC) 'YY:SKRT.DQT.T	•	
F2_CM_MP25		 TTGOTOBQTC) TUSKRLKSTÆ	י אייראי דואוד אייראי	^*************************************
F2KU_BE_VI		2 IIEOIOPALO	TGSEELPSLE	MITTANTITAL	QRIEVKDTKE
G_BE_DRCBL	LLETAEGCOK	IMAOLOPALO	TGTEEIKSLF	MANATOR TO MANA	OKIEAKDIKE
G_NG_92NG0	LLETAEGCVC	IMKOLOP AT	TGTEELRSLF	MINALTIACAH	QKIEVRDTKE
G_SE_SE616	LLETAEGCOC	IMROLOPSIO	TGTEEIKSLY	MINATIFICAL	QKIEVKDTKE
H_BE_V1991	LLETADGCOC	ILGOLOPALK	TGTEDLQSLY	NAVALTACAH	QRIEVKDTKE
H BE V1997	LLESAEGCLO	TTEOLPDSTY	TGTEELXSLF	MILTANTAGAH	QRIDVKDTKE
H_CF_90CF0	LLETPEGCLO) TIECTODATE	. IGIEEDYSPE	NIVATLYCAL	QRIEVKDTKE
J_SE_SE702	LLESAKGCOC	TIMOIODAIN	TGTEELKSLF	NLVAVLYCVH	RKIDVKDTKE
J_SE_SE788	LLESAKGCOO	TINGUODATO	TGTEEIKSLY	NIAMITAGAH	QRIEIKDTKE
K CD EQTB1	LIETVEGCDO	TIBOLODGLO	TGTQEIKSLY	NTVATLYCVH	QRIEIKDTME
K CM MP535		、エイゼの中のちりでい) '1'(+SKKLDQT.D	NTOTE 7 TO 10 TO 1	^~~~~
N CM YBF30		: マヤエバエハトワエハ	TUSERIKSTV	אידו אורוער דל דער דידינו	ATET
O_CM_ANT70		· THMOTERATIK	THEREBURGEN	717/T 7/7/7/7/7/7/7/7/7/7/7/7/7/7/7/7/7/7/	05 7 6
O_CM MVP51		· DUOOTE BATIK	TUSHISLOGIA	NIN TUREST GOTTER	ATT TTOO
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O_SN_99SE_	man removation	. DUOODEPALK	103887.097.0	እፐጥፓ እ የያፕ የመረተ	NTD TT TO THE TOTAL
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n_cp83C	TTELYECCOO	IIGQLQPALQ	TGSEELKSIY	NLVATLYCVH	ORIEVKDTKE
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00BW0762_1	ALDQIEKEQN	QSQQK	.TQQAETADK	ĸ	VSONVETVON
00BW0768_2	ALDKMEEEQN	KSQQK	TOOAEAA AG	K	VSQNYPIVQN
00BW0874_2	ALDKIEKEQN	ESQQ	KTQQAKAADG	ĸ	VSONVDIVON
00BW1471_2	ALDKIEEEQN	K	CQQQAKAAEG	ĸ	VSONVETVON
00BW1616_2	ALDKLEEEQN	KSQQE	TQQQTKAADG	KIS	MONTELION
00BW1686_8	ALDKIEEEQN	KSQQ	KTQQVAAAAG	Q	MOUNTAIN
00BW1759_3	ALDKIEEEQK	KSQQK	.LOOEEAADR	KVs	QNYPIVQN
00BW1773_2	ALDKIEEEQN	KCQQK	. TOOAKEADG	K	
00BW1783_5	ALDKIEEEQN	KCQQK	.TOOAEKTOO	AGAAGGK	VSQNYPIVQN
00BW1795_6	ALDKVEEEQN	KSQQ	KMOOAEAADK	KVS	APONABIAON
00BW1811_3	ALDKIEEEQN	KSQQK	TOOAOEATA	TGK	QNYPIVQN
00BW1859_5	ALDKIEEEQN	KCQQ	KTOOTEDAAG	r r	VSQNYPIVQN
00BW1880_2	ALDKIEEEON	KSQQK	AUUSESTURE	K	VSQNYPIVQN
00BW1921_1	ALDKIEEEON	KSQQ	KTOODENANG	Q	VSQNYPIVQN
00BW2036_1	ALDKIEEEON	TCQQ		A	VSONYPIVON
00BW2063_6	ALDKIEEEOO	KSQQ		K	ISQNYPIVQN
00BW2087 2	ALDKIEEEON	KCOOK	KTQQAEAADK	KVS	QNYPIVQN
00BW2127_2	ALDEIEEEON	KCOOK	.TQQAKAADK	GE	VSQNYPIVQN
00BW2128_3	ALDKIEREON	KTOOK	.AQQEKATDG	K	VSQNYPIVQN
00BW2276_7	ALDKIEREON	KSOOKSOO	. TQQAKEADK	K	VSQNYPIVQN
00BW3819_3	ALDKIEREON	KCOOK	KTQQAQAADG	к	VSQNYPIVQN
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	ALDKIEEEQN		.TQQAKTDD.	.Gк	ISPNYPTVON
96BW0407	ALDKIEEEQN	KCQQK	. LUCAEAADK	C ~	*********
96BW0502	ALDKIEEEQN	ASUUK	. TOOAKEADO	K	******
96BW06_J4	THE TABLE OF THE	ASOU	KTOOARAAAG	K .	***********
96BW11_06	MAGGGGTW	$\kappa_{2} \omega_{0} \ldots \ldots$	KTOOAEAADK :	KTIC	ONTER TEXALS
96BW1210	Mydadusiam.	κ_{CQQK}	.EUOAEAAAK	G 27 1	TOOMETHON
96BW15B03	**************************************	VOOR	KUOOARAAAG	K .	******
96BW16_26	ALDKIEEEQN	KSQQK	.TQQAKEATG	K	TOUTH TET A O'M
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96BW17A09	ALDKIEEEON	K	FOOOAKAADG	к	VECNIVATION
96BWM01 5	ALDKIEEEON	KIOO	KMOOARAADK	KISQDKK	APONTALAOM
96BWMO3 2	ALDRIEEEON	KCOOK	ACCORED AA	K	TOOMITTION
98BWMC12 2	ALDKIKEEON	KSKO	KAUUVKVVUE	K	VEOMVETVON
98BWMC13 4	ALDKVEEEON	KTOO	KMOODEGDDK	KVS	APONILIAON
98BWMC14 a	ALDKIEERON	KVOO.	KTOODEDADK	K	QNIPIVQN
98BWM014 1	ALDKIEEEON	KSOOK	TOODEDADEG	K	ASOMISTAOM
98BWM018 d	ALDKVEEROK	OCOOR	TOOMEN AUK	GK	VSQNIPIVQN
98BWM036 a	ALDKIREEON	KTOOO	TQQAEAADK	GK	VSQNIPIVQN
98BWM037 d	ALDKIEEEON	KSOO	Y TOATANDA	KVs	VPONIBLION
99BW3932 1	ALDKIEEEON	KCOOK	TOORKMARG	K	QNIPIVQN
99BW4642 4	ALDKIEREON	KCOS	KILOUVEVVVE	K	ASOMILLION
99BW4745_8	ALDRIEEEON	KSOO	KIOOAKAARE	K	VSQNIPIVQN
99BW4754 7	ALDKIEEEON	KSOOK	TTOARAADK	K	VECHVELION
99BWMC16 8	ALDKIEEEON	KCOOK	TOODEDADK	.GK	VSQMIPIVQM
A2 CD 97CD	ALDKIEREON	KCKOK		SSSSQNYRGS	VSQNIPIVQN
A2 CY 94CY	ALDKIEEEON	. KOK	DTG & & HOT	NSS	SOUTHINGS
A2D 97KR	ALDKIEEEON	KHKOK	ייים אייים א	SS	S.QNIPIVQN
A2G CD 97C	ALDKIEERON	TCKOR	יוערעעעמוטים.	SSRSQDYRGS	GSQNIPIVQN
A BY 97BL0	ALDKIERTON	XSKO	KTOON ATCTC	SSS.K	SSQNIPIVQN
A KE Q23 A	ALDKIEEIKN	KSKO	KTOONANDTO	NSS.N	VSQNIPIXQN
A SE SE659	ALDKIEEMOK	KCKO	KLEOVLYDLG	SSS.K	VSQNYPIVQN
A SE SE725	ALDKIEETOK	KSKO	KYOOYYYDEG	NSS.K	VSQNYPIVQN
A SE SE753	ALDKIEETON	KSEO	KACOVYVDAC	NSK	VSQNYPIVON
A SE SE853	PIDKIEEIOK	KCKU	KILOOYAYDIG	SSS.K	VSQNYPIVQN
A SE SE889	ALDKIERION	KNIKO	KTOONNADTG	NSS.N	VSHNYPVVQN
A SE UGSE8	ALDKIERION	KCKO	KKEOYYYDDG	NSS.K	VSRNYPIVQN
A UG 92UG0	ALDKIERIOK	KSKO	KTOONAADTG	SSS.K	VSQNYPIMQN
A UG U455	ALNKIEEMON	KNKOB	MUCA VOUL	SS	APONITION
AC IN 2130	ALDKIEEEOE	KGUUK	TQQAAANIG	K	QNYPIVQN
AC RW 92RW	VIDKIEEEOM	KGUUK	TOOMENADG.	GK	VSQNYPIVQN
AC SE SE94	ALDKIEEIKN ALDKIEEIKN	KSKU	* I Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	NSG.K	VSQNYPIVQN
ACD SE SE8	ALDKIERIOK	KSKO	KYOOYYYDAG	NSG.R	VSQNYPIVQN
ACG BE VI1	ALDKLEEVON	KSKOR	TOODANATIG	S	ASOMEDIA
AD SE SE69	ALDKIEEEOT	KSK K	*IQQAAAAIG	NSS.Q	GSONFPIVON
AD SE SE71	ALDKIEEMON	RSKO	KTOODDDTC	NNS.K	ASOMALIAOM
ADHK_NO_97	ALDKIERION	KSKO	KTOOAAADIG	NGS.N	VSQNYPIVON
ADK CD MAL	ALDKIEETON	KSPOKTOONA	MIGGHANAIG	NSS.S	TSOMABINOM
AG BE VI11	AVDKTEEMON	KSKO	KTOOAAAATK	GS	VECUMENTATION
AG NG 92NG	ALEEVEKTOK	NSOOF	TOKYZWCKC	NSS.Q	PSOMILIANOM
AGHU GA VI	ALDKIETION	KSKO	KTOODADATC	NSS.K	ASOMADIMOM
AGU CD Z32	ALDEVEKAOK	SSOOK	TOKATMARE	M GGMO	VSKNFPIVON
AJ BW BW21	ALDKIEEION	KSKO	KAOOAAAATG	NSS.S	ASVMENTAVM
B AU VH AF	ALEKIEEEON	KSKKKAOO A	בעתעעעעעע	NSS.K	ASOMADIAOM
B CN RL42	ALEKIEEEON	KSKK	KAOOTAAGTG	NNSQ	ASOMADAMOM
B DE D31 U	ALDKIEEEON	KSKK	KAOPAARDAG	NNS.Q	MCOMADIMOM
B DE HAN U	ALDKVEEEON	NSKK	KAOOEAADAG	NRN.Q	VOORTETVON
B FR HXB2	ALDKIEEEON	KSKK	KAOOAAADTG	HSN.Q	ABOMILIAOM
B GA OYI	ALDKIEEEON	KSKK	KAOOTAADTG	NSSQ	VSONTEIVON
B GB CAM1	ALEKIEEEON	KSKK	KAOOAAAGTG	NSS.Q	APONTATAON
B GB GB8 A	ALDKIEEEOS	KSKK	KAOOAAADKG	NSNSN.Q	APONTATAON
B GB MANC	ALDKIEEEON	KSKK	KAOPAAADTG	NSS.Q	APONITATION
B KR WK AF	ALEKIEEEOS	KSKK	KACCATADTG	SSS.Q	VSCHIPTVQN
B NL 3202A	ALDKIEEEON	KSKK	KACOAAADTG	NSS.Q	ASOMADIAOM
B TW TWCYS	ALEKIEREON	KSKK.	KAOOAAmama	NNSP	ADOMADIA
B US BC LO	ALEKTEEEON	NSKK	KAOOAANTCIG	NSS.Q	VSQNIPIVQN
B US DH123	ALDKVEREON	KSKK	KAUUVAVAULG	NSS.Q	ASKMILIA
B US JRCSF	ALEKTEREOT	KSMK	KDUUDDUUUL	NSS.Q	ASOMALTACA
B US MNCG	ALEKTERRON	KSKK	KAUUVVVUUL	NRG.N.SS.Q	ASOMISTACA
B US P896	ALDKIRERON	KSKK	KDUUN NUULA YAYKAMIG	NSS.Q	VOORTETTOT
B US RF M1	ALDKTERROM	KSKK	KDOODYYDDG **CAKGGGGGTGG	NGS.Q	APÖNILINÖN
	KT 111117 [N		**************************************	MQ	APÖMILIAÖN

B_US_SF2_K	AT EVTERNO				
B_US_SF2_K B US WEAU1		N KSKK	KAQQAAAAA	G TGN.SS.	Q VSQNYPIVQN
		N $N \supset N \setminus N \cap	KAQQAAADTI	NRN.	O VSONYPTVON
B_US_WR27_ B_US_YU2 M	ALEKTEEEQI	KSKK	KAQQAEADTO	NNS.	K VSONVPTVON
B_03_102_M BF1_BR_93B		KSKK	KAQQAAADTG	NSS.	O VSONYPTVOM
C BR 92BR0		.skk	KAQQAAANTO	NNS	O VSONYPTVON
C_BR_92BR0	ALDKIREEO	KSQQK	. ΤΌΟΔΕΔΔΌΙ	7 (2	77 77003777777
	ALDKIEEEQI	V KCQQK	LUCARAADK	. C	V 37003TVDT
C_BW_96BW1		v A300	ΚΊΟΟΔΕΔΔΌΚ	מממ י	01777 mm
C_BW_96BW1 C BW 96BW1		· rcggr	LOUAEAAAK	G	K MCONTIDITION
C ET ETH22		, 1025p	KTQQAEAAAG	K	. ISONYPTUOM
C IN 93IN1			. TOOAGAADR	· C	Z DOOMESTER
C_IN_93IN9	ALDKIEEEON	KIQQK	TOOAKEADO	. K	110017177
C IN 931N9		MANAGE	TOOAKEANE	' T/	7700277
C_IN_94IN1		κ	TQQAKEADG	K	. VSONYPTVON
C IN 95IN2	- more rendered	$1 V2 \land OV \cdot \cdot \cdot \cdot \cdot$	TQQAKEADS		ONYPIVON
CRF01_AE C	ALDKIEEEON	KIKQK	- TOOAKEDDO	. 72	TTO 017777
CRF01_AE_C	WIDKIEEAÖV	KNKQ	KTOOAAAGTG	S MOI	Z VICONTER TITOR
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CRF01_AE_T		KSQR	KTOOAAAGTG	S 66 t	77777777777
CRF02_AG_F	- more paragon	. NOUQ	KTOOAAAGTG	Q 00 t	77003777
CRF02_AG_F		V2VO	KIKOKAAAATK	_	
CRF02_AG_F		$\kappa_{2}\kappa_{0}\dots$	ΚΊΟΟΑΚΔΔΤα		
CRF02_AG_G		$\kappa_{2}\kappa_{0}\kappa_{1}$	ΤΟΟΙΑΔΑΝΙΟ	_	
CRF02_AG_S		MORQ	KVOOTAAATG	_	0000
CRF02_AG_S		NONO	K.I.OOAAAAAG	_	0001777
CRF03_AB R	**************************************	$\kappa_0 \kappa_0 \dots$	KTOOAAAATG		CCONTENTATION
CRF03_AB R	1 mprompt MM	$\kappa_{2}\kappa_{2}\ldots$	KTOOAATGTG	S 00 1	TICONTENTAL
CRF04_cpx_	TODICT DE L'ON	$\kappa_0 \kappa_0 \dots$	KILOOAATGTG	C CC 7	17001777
CRF04_cpx_	*mpremeros	$\kappa_{\Sigma}\kappa_{\Sigma}\dots$	KTOOAAAAA	G con	TICONTENTAL
CRF04_cpx_		$\kappa_0 \kappa_0 \dots$	KTOOAAADTG	G CC 12	* ******
CRF05_DF_B	* ************************************	$\kappa_{2}\kappa_{0}\dots$	אייסעעעעטטייא	00.33	* *******
CRF05 DF B		$N_{2}, N_{3}, N_{4}, \dots, N_{5}$	KAUUARAGAG	NT CC O	7.7.2
CRF06_cpx_		1/21/2	RADOARAGTR	M com	77C 03=======
CRF06_cpx_		$\kappa_{\alpha}\kappa_{\alpha}\kappa_{\alpha}$. ΑΗ()ΑΑΔΤΩ	N CC N	T 0037777
CRF06_cpx_		$\kappa_{0}\kappa_{0}\kappa_{0}\ldots$. AUUAAAATG	N CC N	T CONTINUES
CRF06_cpx_		V2VOV	- VOODAAAAME	NT 00 0	T C C
CRF11_cpx_	TIADICADUTÕIA	$\kappa_2\kappa_0\kappa_1$	TOOTTAATG	N ce m	T COMMENTER
CRF11_cpx_		νωνς	KKUUAAADTG	NT CC N	TICOLITICA
D_CD_84ZR0		YOY	. KUUAAADSG	N CNT 12	TECONTER TELES
D_CD_ELI_K		MOVV	RAUUAAAGTG	NT CC A	170 O1T IN
D_CD_NDK_M	AVEKMEERON	KSKK	KAQQAAADTG	NNS.Q	VSQNYPIVQN
D_UG_94UG1		X_0, \dots, X_{N-1}	KICOAAADS '	~ ~	77003TTT
F1_BE_VI85		κ_{0}	KACKATTATTO	M cc o	7700377
F1 BR 93BR		$\kappa_{0} Q Q \dots \dots$. KTOOAAADK	~	17001TTT
F1 FI FIN9	ALDKIEERON	KGRQ KSQQKT	. KTQQATAEK	•••••G	VSQNYPIVQN
F1_FR_MP41		KGQQ	• QQAAAAADK	· · · · ·	VSONYPTVON
F2_CM_MP25	ALDKLOEEOD	KHQQ	. KTQQAAADK		VSQNYPIVQN
F2KU_BE_VI	ALDKLEEEQK	TOKOO	. KTQQATADK	GVSKG	VSONYPILON
G BE DRCBL	ALEEVEKIQK	*XWZY	KTQQEAAGK	G	VSONYPTVON
G_NG_92NG0	APEEVEKIQK	MGUUE MGUUE	· · · · · · · KEN	SSS.O	VSONYPTVON
G SE SE616	ALEEVEKIQK	KGUER	. IQQAAKNEG	NSN.P	VSONYPTVON
H_BE_VI991	ALGKTRETON		• TQQAAMDKG	NSN.O	VSONYPIVON
H_BE_VI997	ALGKIERTON	KRQQK	TQQAPAAAD	K.EKDSK	ISONYPTYON
H_CF_90CF0	ALDKIRETON	$\kappa \kappa \nu \nu \kappa \nu$.TOOATANK	שוארו סים	17CO 03TT-D
J_SE_SE702	ALDKIEFTON	KSQQK	TODADADK	שוארו שם	MONTENESS
- -		KNKQQ	TOKAETDKK	ыяQ	VSQNYPIVQN
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J_SE_SE788 ALEKIEEION KNKOO. AQKAETOKK DNS. Q VSQNY K. CM_MP535 ALDKLEEEQ. NRTQO. KTQQKADK G VSQNY N_CM_MP535 ALDKLEEEQ. NRSQR. KTQQGADAK G VSQNY N_CM_MP536 ALDKLEEEQ. NRSQR. KTQQGADAK G VSQNY N_CM_ANT70 ALDKLEEEQ. NRSQR. KTQQGADAK G VSQNY N_CM_ANT70 ALDKLEEVQN KSKS. ADAAKEDTS A. R. Q TGQNY O_SM_995E ALDKLKEVMG SKS. AGAAKEDTS A. R. Q TGQNY O_SMM_995E ALDKL	
K_CM_MB535 N_CM_SP350 N_CM_MP511 N_CM_SP350 N_SP350 N_S	DTIIO
ALDKIKEKQE QHKRE. P KNPEAGARAN TIS N ISRNY O_CM_ANT70 ALDKIKEVWG SKKS. ADAAKEDTS A. R. Q AGQNY O_CM_ANT70 ALDKIKEVWG SKKS. ADAAKEDTS A. R. Q AGQNY O_SM_99SE ALDKIKEVWG SKKS. ABAAKEDTS A. R. Q TGQNY O_SM_99SE ALDKIKEVWG SKKS. AGAAKEDTS A. R. Q TGQNY O_SM_99SE ALDKIKEVWG SKKS. AGAAKEDTS A. R. Q TGQNY O_SM_99SE ALDKIKEVWG SKKS. AGAAKEDTS A. R. Q TGQNY O_SM_99SE ALDKIEVWG KGKQK. AQQAADK. GS.NSQ VSQNY 151 00BW0762_1 IGGQWVHQSL SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPQ 00BW0774_2 LQGQWVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPQ 00BW1711_2 AQGQWVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPQ 00BW1666_8 LQGQWVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPQ 00BW1795_9 LQGQWVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPQ 00BW1791_2 LQGQWVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPQ 00BW1791_3 LQGQWVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPQ 00BW1791_3 LQGQWVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPQ 00BW1791_4 AQGQWVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPQ 00BW1810_1 AQGQWVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPQ 00BW1811_1 AQGQWVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPQ 00BW121_1 LQGQWVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPQ 00BW2036_1 LQQGWVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPQ 00BW2037_2 AQGQWVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPQ 00BW2037_1 COBW0121_2 LQQGWVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPQ 00BW2031_1 LQQGWVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPQ 00BW2031_1 LQQGWVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPQ 00BW2031_2 LQQGWVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPQ 00BW3081_2 AQQGWVHQAI SPRTLNAWVK VIEEKAFSPE	DINOM
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O_CM_MVP51 AIQKIKEVMS SRKS. AEAAKEETS P. R. Q TGQMY O_SN_99SE AIQKIKEVMS SRKS. AEAAKEETS P. R. Q TGQMY O_SN_99SE AIQKIKEVMS SRKS. AEAAKEETS P. R. Q TGQMY U_CD_83C ALDKIKEVMS SRKS. AEAAEETS A. R. Q TGQMY I_CD_83C ALDKIKEVMS SRKS. AEAAEETS A. R. Q TGQMY I_ST	DT.VV.TD
O_SN_99SE	DIMOM
O_SN_99SE	DIVINI
ALDRIESVON KGROK. AQQAADK. GS. NSQ VSQNY 151 OOBWO762 1 OOBWO762 1 OOBW0762 2 OOBW0471 2 OOBW1471 2 OOBW1471 2 OOBW1666 8 OOBW1775 3 OOBW1773 2 OOBW188 9 5 OOBW188 9 5 OOBW188 9 5 OOBW188 9 5 OOBW189 1 OOBW108 1 OOBW108 1 OOBW108 1 OOBW108 1 OOBW179 1 OOBW108 1 OOBW179 2 OOBW168 1 OOBW179 2 OOBW168 1 OOBW179 3 OOBW188 9 OOBW188 9 OOBW188 9 OOBW188 9 OOBW188 9 OOBW188 9 OOBW18 9 OOBW18 9 OOBW18 9 OOBW18 9 OOBW18 9 OOBW19 9 OOBW19 9 OOBW19 9 OOBW2016 1 OOBW2016 1 OOBW2016 1 OOBW2016 1 OOBW2016 1 OOBW2017 1 OOBW2016 1 OOBW2018 1 OO	DTVPTAT
151 106BW0768_2 00BW0874_2 00BW1471_2 00BW1471_2 00BW1471_2 00BW166_8 00BW1793_3 00BW1783_5 00BW1783_5 00BW1783_5 00BW1880_5 00BW2276_7 00BW1880_5 00BW3871_3 00BW3871_3 00BW3871_3 00BW3871_3 00BW3871_3 00BW3886_8 00BW3871_3 00BW3881_6 00BW3891_6 00BW389	T/ A V/V/G
151 1008W0762_1 00BW0768_2 00BW0874_2 00BW1471_2 00BW1471_2 00BW14616_2 00BW1616_2 00BW1686_8 00BW1759_3 00BW1759_3 00BW1759_3 00BW1759_5 00BW1783_5 00BW1783_5 00BW1783_6 00BW1889_5 00BW1889_6 00BW1889_6 00BW1889_6 00BW1889_1 10QQMVHQAI SPRTLNAWVK VIEKAFSPE VIPMFTALSE GATPQI 00BW1889_6 00BW1889_1 10QQMVHQAI SPRTLNAWVK VIEKAFSPE VIPMFTALSE GATPQI 00BW1889_6 00BW189_1 10QQMVHQAI SPRTLNAWVK VIEKAFSPE VIPMFTALSE GATPQI 00BW1889_6 00BW189_1 10QQMVHQAI SPRTLNAWVK VIEKAFSPE VIPMFTALSE GATPQI 00BW2036_1 00BW2036_1 00BW2031_1 00BW2031_1 00BW2031_1 00BW2031_3 00BW3031_3 00BW3	NOVI
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OOBW1471-2 OOBW1616-2 OOBW1666-2 OOBW1686-8 COGOWYHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPO OOBW1759-3 OOBW1759-3 OOBW1759-3 OOBW1773-2 OOBW1773-2 OOBW1793-5 OOBW1793-5 OOBW1793-5 OOBW1793-6 OOBW1793-6 OOBW1880-2 OOBW1880-2 OOBW1880-2 OOBW1880-2 OOBW2036-1 OOBW2087-2 OOBW2179-1 OOBW2087-1 OOBW2087-1 OOBW2087-1 OOBW2087-2 OOBW2179-2 OOBW2179-3 OOBW2179-3 OOBW2179-3 OOBW2179-3 OOBW2087-2 OOBW2087-1 OOBW2	
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OOBW1616-2 OOBW1686-8 COGOWYOOAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPOO OOBW1773-2 OOBW1773-2 OOBW1795-6 OOBW1795-6 OOBW1895-5 COGOWYOOAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPOO OOBW185-7 OOBW203-6 OOBW203-7 OOBW3870-3 OOBW3870	NTML
OOBW17593 OOBW17732 LQGQMVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPO OOBW17956 OOBW17956 OOBW18113 OOBW189595 LQGQMVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPO OOBW18113 OOBW18595 LQGQMVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPO OOBW18802 OOBW18802 OOBW18801 OOBW18802 OOBW20361 LQGQMVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPO OOBW21272 LQGQMVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPO OOBW21281 OOBW2179 OOBW2179 LQGQMVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPO OOBW20361 LQGQMVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPO OOBW2127 OOBW3127 OOBW3127 OOBW33819 LQGQMVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPO OOBW3842 OOBW3876 OOBW3876 OOBW3876 OOBW38876 OOBW38870 OOBW	MTMJ(
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OOBW1773_5 OOBW1795_6 OOBW1811_3 OOBW1859_5 OOBW1880_2 OOBW1880_2 OOBW2036_1 OOBW2036_1 OOBW2036_2 OOBW2037_2 OOBW2037_2 OOBW2037_3 OOBW2127_2 OOBW2127_3 OOBW2128_3 OOBW217_3 OOBW2127_3 OOBW3819_3 O	
OOBW1795_6 OOBW1795_6 OOBW1811_3 OOBW1811_3 OOBW1880_2 OOBW1880_2 OOBW1880_2 OOBW1921_1 OOBW2036_1 OOBW2036_1 OOBW2087_2 OOBW2087_2 OOBW2127_2 OOBW2127_2 OOBW2128_3 OOBW2127_2 OOBW2128_3 OOBW2128_3 OOBW2128_3 OOBW2128_3 OOBW3870_2 OOBW3819_3 OOBW3876_9 OOBW3871_1 OOBW3871_2 OOBW3870_2 OOBW3871_2 OOBW3870_2 OOBW3870_2 OOBW3871_2	
OOBW1795_6 OOBW1815_9 OOBW1859_5 OOBW1880_2 OOBW1880_2 OOBW1880_2 OOBW1880_2 OOBW1921_1 OOBW2036_1 OOBW2036_1 OOBW2036_2 OOBW2087_2 OOBW2087_2 OOBW2127_2 OOBW2127_3 OOBW2128_3 OOBW2128_3 OOBW2128_3 OOBW2128_3 OOBW3810_3 OOBW3810_6 OOBW3810_3 OOBW3810_6 OOBW3810_3 OOBW3810_6 OOBW3810_3 OOBW3810_6 OOBW3810_3 OOBW3810_6 OOBW3810_1 OOBW3810_3 OOBW3810_6 OOBW3810_1	
OOBW1859_5 OOBW1859_5 OOBW1859_5 OOBW1880_2 OOBW1880_2 OOBW1880_2 OOBW1880_2 OOBW1821_1 OOBW2036_1 OOBW2036_1 OOBW2063_6 OOBW2063_6 OOBW2063_6 OOBW2063_6 OOBW2063_6 OOBW2063_6 OOBW2087_2 OOBW2087_2 OOBW2128_3 OOBW3819_3 OOBW3819_3 OOBW3819_3 OOBW3819_3 OOBW3876_9 OOBW3876_9 OOBW38876_9 OOBW38876_9 OOBW38876_9 OOBW38970_2 OOBW38970_2 OOBW3891_1 96BW05031_1 96BW05	
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OOBW1921_1 OOBW2036_1 OOBW2063_6 OOBW2063_6 OOBW2067_2 OOBW2067_6 OOBW2027_2 OOBW2127_2 OOBW2127_2 OOBW2128_3 OOBW2128_3 OOBW2128_3 OOBW2128_3 OOBW2128_3 OOBW3862_6 OOBW3862_6 OOBW3862_6 OOBW3862_6 OOBW3862_6 OOBW3862_6 OOBW3862_8 OOBW3861_3 OOBW3861_3 OOBW3862_8 OOBW3861_3 OOBW3862_8 OOBW3861_3 OOBW3862_8 OOBW3861_6 OOBW3862_6 OOBW3862_6 OOBW3862_6 OOBW3863_6	
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OOBW2063_6 OOBW2087_2 OOBW2087_2 OOBW2127_2 OOBW2127_2 OOBW2128_3 OOBW2127_7 OOBW2128_3 OOBW2127_7 OOBW2128_3 OOBW2127_7 OOBW2276_7 OOBW3819_3 OOBW3819_3 OOBW3819_3 OOBW3876_9 OOBW3876_9 OOBW3876_9 OOBW3891_6	LNTM
OOBW2087_2 OOBW2127_2 OOBW2127_2 OOBW2128_3 OOBW2128_3 OOBW2276_7 OOBW3819_3 OOBW3842_8 OOBW3847_3 OOBW3876_9 OOBW3891_6 OOBW3970_2 OOBW3970_2 OOBW5031_1	LNTM
OOBW2127_2 OOBW2128_3 OOBW2128_3 OOBW2128_3 OOBW2276_7 OOBW3819_3 OOBW3842_8 OOBW3871_3 OOBW3871_3 OOBW3876_9 OOBW3876_9 OOBW3876_9 OOBW3891_6 OOBW3970_2 OOBW3970_2 OOBW3970_2 OOBW3970_1 OOBW3970_1 OOBW3970_1 OOBW3970_1 OOBW3970_1 OOBW3970_1 OOBW3970_1 OOBW3970_1 OOBW3970_1 OOBW3970_2 OOBW3970_1 OOBW3970_2 OOBW3970_2 OOBW3970_2 OOBW3970_2 OOBW3970_1 OOBW3970_1 OOBW3970_1 OOBW3970_1 OOBW3970_2 OOBW3970_2 OOBW3970_2 OOBW3970_1	
OOBW2128_3 OOBW2128_3 OOBW2128_3 OOBW2276_7 OOBW3819_3 OOBW3819_3 OOBW3819_3 OOBW3842_8 OOBW3871_3 OOBW3876_9 OOBW3886_8 OOBW3886_8 OOBW3891_6 OOBW3891_6 OOBW3891_6 OOBW3891_6 OOBW3891_6 OOBW3970_2 OOBW3891_6 OOBW3970_2	
OOBW2126_7 OOBW2276_7 OOBW3819_3 OOBW3842_8 OOBW3871_3 OOBW3876_9 OOBW3876_9 OOBW3891_6 OOBW3970_2 OOBW5031_1	
OOBW3276_7 OOBW3819_3 OOBW3819_3 OOBW3819_3 OOBW3819_3 OOBW3871_3 OOBW3876_9 OOBW3876_9 OOBW3876_9 OOBW3876_9 OOBW3876_9 OOBW38819_6 OOBW3891_6 OOBW3891_6 OOBW3891_6 OOBW3891_6 OOBW3891_6 OOBW3970_2 OOBW3970_2 OOBW3970_2 OOBW5031_1 OOBW5031_1 OOBW5031_1 OOBW5031_1 OOBW50031_1 OOOW50031_1 OOOW5	
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OOBW3842_8 LQGQMVHQAI SPRTLNAWVK VVEEKGFNPE VIPMFTALSE GATPQI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GAPQI OOBW3876_9 LQGQMVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GAPQI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GAPPQI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GAPP	
OOBW3876_9 OOBW3876_9 OOBW3886_8 OOBW3891_6 OOBW3891_6 OOBW38970_2 OOBW3970_2 OOBW3970_2 OOBW5031_1 P6BW01B21 P6BW0407 P6BW0502 P6BW0502 P6BW05032 P6BW05032 P6BW05032 P6BW11_06 P6BW11_06 P6BW1210 P7BTLNAWVK PIEKAFSPE P1PMTTALSE PATPOLO P1PTTALSE	
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OOBW38970_2 OOBW38970_2 OOBW5031_1 PGEW01B21 PGEW01B21 PGEW0407 PGEW0407 PGEW0502 PGEW06_J4 PGEW06_J4 PGEW06_J4 PGEW1210 PGEW1210 PGEW1210 PGEW1210 PGEW15B03 PGEW16_26 PGEW16_26 PGEW16_26 PGEW17A09 PGEW17A09 PGEW17A09 PGEW17A09 PGEW17A09 PGEW17A09 PGEWM01_5 PGEWM01_	אינהע. זיז דאונד
DOBWS970_2 DOBWS970_2 DOBWS970_2 DOBWS931_1 DQGQMVHQAI SPRTLNAWVK VIEEKAFSPE VIPMFTALSE GATPQD SPRTLNAWVK VIEEKAFSPE VIPMFTALS	אינהעיץ. זיז דיזיז
96BW01B21 LQGQMVHQAI SPRTLNAWVK VIGEKAFNPE IIPIFTALSE GATPQD SPRTLNAWVK VIKEKAFSPE VIPMFTALSE GATPQD SPRTLNAWVK VIEEKAFSPE VIP	T.MCM
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00BW1795_8	INIVEGRO.A	AMOMPKDIIN	EEAAEWDRLH	PVHAGPVAPG	QMREPRGSDI
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00BW2063_6	LINITYGGHQ.A	AMOMLKDTIN	EEAAEWDRLH	PVHAGPAAPG	QMREPRGSDI
00BW2087_2	LNTVGGHQ.A	AMOMLKDTIN	EEAAEWDRLH	PVHAGPVAPG	QMREPRGSDI
00BW2127_2	LINTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPIAPG	QMREPRGSDI
00BW2128_3	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRVH	PVHAGPIAPG	QMREPRGSDI
00BW2276_7	LINTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPVAPG	QMREPRGSDI
00BW3819_3	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPVAPG	QMREPRGSDI
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00BW3871_3	LNTVGGHQ.A	AMOMLKDTIN	EEAAEWDRLH	PVHAGPIAPG	QMREPRGSDI
00BW3876_9	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRIH	PVHAGPVAPG	QMRDPRGSDI
00BW3886_8	LINTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPIAPG	QMREPRGSDI
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96BW01B21	LNTVGGHQ.A	AMOMLKDTIN	EEAAEWDRTH	PVHAGPVAPG	QLREPRGSDI
96BW0407	LINTVGGHQ.A	AMOMEKDTIN	EEAAEWDRVH	PVHAGPIAPG	QMREPRGSDI
96BW0502	LINTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVQAGPVAPG	QMRDPRGSDI
96BW06_J4	LINTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVQAGPVAPG	QMRDPRGSDI
96BW11_06	LINTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPVAPG	QMREPRGSDI
96BW1210	LINTVGGHQ.A	AMQMLKDTIN	EEAAGWDRLH	PVHAGPVAPG	QMREPRGSDI
96BW15B03	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPIAPG	QMREPRGSDI
96BW16_26	LINTVGGHQ.A	AMQMLKDTIN	EEAAEWDRVH	PVHAGPIAPG	QMREPRGSDI
96BW17A09	LINTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPIAPG	QMREPRGSDI
96BWMO1_5	LINTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPVAPG	QMREPRGSDI
96BWM03_2	LNTVGGHQ.A	AMOMLKDTIN	EEAAEWDRMH	PVHAGPVAPG	QMREPRGSDI
98BWMC12_2	LINTVGGRQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPVAPG	QMREPRGSDI
98BWMC13_4 98BWMC14 a	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVQAGPVAPG	QIREPRGSDI
98BWMC14_a 98BWMO14 1	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPVAPG	QMRDPRGSDI
_	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRTH	PVHAGPVAPG	QMREPRGSDI
98BWM018_d	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPVAPG	QMREPRGSDI
98BWM036_a	LNTVGGHQ.A	AMOMLKDTIN	EEAAEWDRLH	PVHAGPVAPG	QMREPRGSDI
98BWM037_d	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVQAGPIAPG	QIREPRGSDI
99BW3932_1	LINTVGGHQ.A	AMQMLKDTIN	EEAAEWDRTH	PVHAGPVAPG	QMREPRGSDI
99BW4642_4	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPVAPG	QMREPRGSDI
99BW4745_8	LINTVGGHQ.A	AMQMLKDTIN	EEAAEWDRIH	PVHAGPVAPG	QMREPRGSDI
99BW4754_7	LINTVGGHQ.A	AMQMLKDTIN	EEAAEWDRVH	PVHAGPIAPG	QIREPRGSDI
99BWMC16_8	LINTVGGHQ.A	AMOMLKDTIN	EEAAEWDRTH	PVHAGPIAPG	QMREPRGSDI
A2_CD_97CD	INTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVQAGPIPPG	QMREPRGSDI
A2_CY_94CY	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRVH	PVHAGPIPPG	QMREPRGSDI
A2D97KR	INTVGGHQ.A	AMOMLKDTIN	EEAAEWDRLH	PVHAGPIPPG	QMREPRGSDI
A2G_CD_97C	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRVH	PVHAGPIPPG	QMREPRGS
A_BY_97BL0	LNIVGGHQ.A	AMQMLKDTIN	EEAAXXDRLH	PAQAGPFPPG	QMREPRGSDI
A_KE_Q23_A	LNIVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPIPPG	OMREPRGSDT
A_SE_SE659	LNIVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPIPPG	OMREPRGS
A_SE_SE725	LNIVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PAHAGPVAPG	OMREPRGS
A_SE_SE753	LNIVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPIPPG	OMREPRGSDT
A_SE_SE853	LNIVGGHQ.A	AMQMLKDTIN	EBAAEWDRLH	PVHAGPIPPG	OMREPRGS.
A_SE_SE889	LNIVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPIPPG	OMREPRGS
A_SE_UGSE8	LNIVGGHQ.A	AMEMLKDTIN	EEAAEWDRTH	PIHAGPVAPG	OMREPRGSDT
A_UG_92UG0	LMIVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPVAPG	QMREPRGSDI

A UG U455 LNVVGGHQ.A AMQMLKDTIN EEAAEWDRLH PVHAGPIPPG QMREPRGSDI AC_IN_2130 LNTVGGHQ.A AMQMLKDTIN EEAAEWDRLH PAQAGPIAPG QMREPRGSDI AC RW 92RW LNTVGGHQ.A AMQMLKDTIN EEAAEWDRVH PVQAGPVAPG QIREPRGSDI AC SE_SE94 LNTVGGHQ.A AMQMLKDTIN EEAAEWDRLH PAQAGPVAPG QMREPRGS... ACD SE_SE8 LNIVGGHQ.A AMQMLKDTIN EEAAEWDRIH PVHAGLIAPG QMREPRGSDI ACG_BE_VI1 LNIVGGHQ.A AMQMLKDTIN EEAADWDRTH PVHAGPNPPG QMREPRGSDI AD_SE_SE69 LSTVGGHQ.A AMQILKETIN EEAADWDRLH PVHAGPNAPG QMREPRGSDI AD_SE_SE71 LNIVGGHQ.A AMQMLKDTIN EEAAEWDRLH PVHAGPIPPG QMREPRGS... ADHK_NO_97 LNIVGGHQ.A AMQMLKDTIN EEAADWDRLH PVHAGPIPPG QMREPRGSDI ADK_CD_MAL LNIVGGHQ.A AMQMLKDTIN EEAADWDRVH PVHAGPIPPG QMREPRGSDI AG_BE_VI11 LNIVGGHQ.A AMQMLKDTIN EEAAEWDRVH PVHAGPIPPG QMREPRGSDI AG_NG_92NG LNTVGGHQ.A AMQMLKDSIN EEAAEWDRLH PQQAGPIPPG QIREPRGSDI AGHU_GA_VI LNIVGGHQ.A AMQMLKDTIN EEAAEWDRIH PVQAGPIPPG QIREPRGSDI AGU_CD_Z32 LNTVGGHQ.A AMQMLKDTIN EEAAEWDRVH PPQAGPIPPG QIREPRGSDI AJ_BW_BW21 LNIVGGHQ.A AMQMLKDTIN EEAAEWDRLH PVHAGPIPPG QMREPRGSDI B_AU_VH_AF LNTVGGHQ.A AMQMLKETIN EEAAEWDRLH PVHAGPIAPG QMREPRGSDI
B_CN_RL42_ LNTVGGHQ.A AMQMLKETIN EEAAEWDRLH PVHAGPVAPG QMREPRGSDI
B_DE_D31_U LNTVGGHQ.A AMQMLKETIN EEAAEWDRLH PVHAGPIAPG QMREPRGSDI B_DE_HAN_U LNTVGGHQ.A AMQMLKETIN EEAAEWDRLH PVHAGPIAPG QMREPRGSDI B_FR_HXB2_ LNTVGGHQ.A AMQMLKETIN EEAAEWDRVH PVHAGPIAPG QMREPRGSDI B_GA_OYI_ LNTVGGHQ.A AMQMLKETIN EEAAEWDRLH PVHAGPIAPG QMREPRGSDI B_GB_CAM1_ LNTVGGHQ.A AMQMLKETIN EEAAEWDRLH PVHAGPIAPG QMREPRGSDI B_GB_GB8_A LNTVGGHQ.A AMQMLKETIN EEAAEWDRVH PVHAGPVAPG QMREPRGSDI B_GB_MANC_ LNTVGGHQ.A AMQMLKETIN EEAAEWDRVH PVHAGPVAPG QMREPRGSDI
B_KR_WK_AF LNTVGGHQ.A AMQMLKETIN EEAAEWDRLH PVHAGPIAPG QMREPRGSDI
B_NL_3202A LNTVGGHQ.A AMQMLKETIN EEAAEWDRLH PVHAGPIAPG QMREPRGSDI
B_TW_TWCYS LNTVGGHQ.A AMQMLKETIN EEAAEWDRLH PVHAGPIAPG QMREPRGSDI
B_US_BC_LO LNTVGGHQ.A AMQMLKETIN EEAAEWDRLH PVQAGPVAPG QMREPRGSDI
B_US_DH123 LNTVGGHQ.A AMQMLKETIN EEAAEWDRLH PVQAGPVAPG QMREPRGSDI B_US_JRCSF LNTVGGHQ.A AMQMLKETIN EEAAEWDRLH PVHAGPIAPG QMREPRGSDI B_US_MNCG_ LNTVGGHQ.A AMQMLKETIN EEAAEWDRLH PVHAGPITPG QMREPRGSDI B_US_P896 LNTVGGHQ.A AMQMLKETIN EEAAEWDRLH PVQAGPVAPG QMREPRGSDI B_US_RF_M1 LNTVGGHQ.A AMQMLKETIN EEAAEWDRLH PVHAGPIAPG QMREPRGSDI B_US_SF2_K LNTVGGHQ.A AMQMLKETIN EEAAEWDRVH PVHAGPIAPG QMREPRGSDI B_US_WEAU1 LNTVGGHQ.A AMQMLKETIN EEAAEWDRLH PVHAGPIAPG QMREPRGSDI B_US_WR27_ LNTVGGHQ.A AMQMLKETIN DEAAEWDRLH PVQAGPVAPG QMREPRGSDI B_US_YU2_M LNTVGGHQ.A AMQMLKETIN EEAAEWDRLH PVHAGPIAPG QMREPRGSDI BF1_BR_93B LNTVGGHQ.A AMQMLKETIN EEAAEWDRVH PVHAGPIPPG QMREPRGSDI C_BR_92BR0 LNTVGGHQ.A AMQMLKDTIN EEAAEWDRLH PVHAGPVAPG QMREPRGSDI C_BW_96BW0 LNTVGGHQ.A AMQMLKDTIN EEAAEWDRLH PVHAGPIAPG QMREPRGSDI C BW 96BW1 LTTVGGHQ.A AMQMLKDTIN EEAAEWDRLH PVHAGPVAPG QMREPRGSDI C BW 96BW1 LNTVGGHQ.A AMQMLKDTIN EEAAGWDRLH PVHAGPVAPG QMREPRGSDI C BW 96BW1 LNTVGGHQ.A AMQMLKDTIN EEAAEWDRLH PVHAGPIAPG QMREPRGSDI C_ET_ETH22 LNTVGGHQ.A AMQMLKDTIN EEAAEWDRLH PVHAGPVAPG QMRDPRGSDI C IN 93IN1 LNTVGGHQ.A AMQMLKDTIN EEAAEWDRLH PIHAGPIAPG QMREPRGSDI C IN 93IN9 LNTVGGHQ.A AMQMLKDTIN EEAAEWDRLH PIHAGPIAPG QMREPRGSDI C IN 93IN9 LNTVGGHQ.A AMQMLKDTIN EEAAEWDRLH PVHAGPIAPG QIREPRGSDI C_IN_94IN1 LNTVGGHQ.A AMQMLKDTIN EEAAEWDRIH PVHAGPIAPG QMREPRGSDI C_IN_95IN2 LNTVGGHQ.A AMQMLKDTIN EEAAEWDRLH PVPAGPIAPG QLREPRGSDI CRF01 AE C LNIVGGHQ.A AMQMLKDTIN EEAAEWDRLH PVHAGPIPPG QMREPRGSDI CRF01 AE C LNIVGGHQ. A AMQILKDTIN EEAAEWDRVH PVHAGPIPPG QMREPRGADI CRF01_AE_C LNIVGGHQ.A AMQMLKDTIN EEAAEWDRVH PVHAGPIPPG QMREPRGSDI CRF01_AE_T LNIVGEHQ.A AMQMLKETIN EEAAEWDRVH PVHAGPIPPG QMREPRGSDI CRF01_AE_T LNIVGGHQ.A AMQMLKETTN EEAAEWDRVH PVHAGPIPPG QMREPRGSDI CRF01_AE_T LNIVGGHQ.A AMQMLKETIN EEAAEWDRVH PVHAGPIPPG QMREPRGSDI CRF01 AE T LNIVGGHQ. A AMQMLKETIN EEPAEWDRVH PVHAGPIPPG QIREPRGSDI CRF01 AE T LNIVGGHQ. A AMQMLKETIN EEPAEWDRVH PVHAGPIPPG QMREPRGSDI CRF01_AE_T LNIVGGHQ.A AMQMLKETIN EEAAEWDRVH PVHAGPIPPG QMREPRGSDI CRF02_AG_F LNIVGGHQ.A AMQMLKDTIN EEAAEWDRVH PVHAGPIPPG QMREPRGSDI CRF02_AG_F LNIVGGHQ.A AMQMLKDTIN EEAAEWDRVH PVHAGPIPPG QMREPRGSDI CRF02_AG_G LNIVGGHQ.A AMQMLKDTIN EEAAEWDRTH PIHAGPNPPG QMREPRGSDI

CRF02_AG_N	LNIVGGHQ.A	AMQMLKDTIN	EEAAEWDRVH	PVHAGPIPPG	QMREPRGSDI
CRF02_AG_S	LNIVGGHQ.A	AMQMLKDTIN	EEAAEWDRVH	PVHAGPIPPG	QMREPRGSDI
CRF02_AG_S	LNIVGGHQ.A	AMQMLKDTIN	EEAADWDRTH	PVHAGPIPPG	QMREPRGSDI
CRF03_AB_R	LNIVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PAQAGPFPPG	QMREPRGSDI
CRF03_AB_R	LNIVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PAQAGPFPPG	QMREPRGSDI
CRF04_cpx_	LNIVGGHQ.A	AMQMLKDTIN	EEAADWDRTH	PVHAGPIPPG	QMREPRGSDI
CRF04_cpx_	LNIVGGHQ.A	AMQMLKDTIN	EEASEWDRAH	PVHAGPIPPG	QMREPRGSDI
CRF04_cpx_	LNIVGGHQ.A	AMQMLKDTIN	EEAAEWDRVH	PAHAGPNPAG	QMREPRGSDI
CRF05_DF_B	LNTVGGHQ.A	AMQMLKETIN	EEAAEWDRLH	PVQAGPVAPG	QMRDPRGSDI
CRF05_DF_B	LNTVGGHQ.A	AMQMLKETIN	EEAAEWDRVH	PAQAGPIAPG	QIREPRGSDI
CRF06_cpx_	LNIVGGHQ.A	AMQMLKDTIN	EEAAEWDRVH	PVHAGPIPPG	OIREPRGSDI
CRF06_cpx_	LNIVGGHQ.A	AMQMLKDTIN	EEAAEWDRVH	PVHAGPIPPG	OMREPRGSDI
CRF06_cpx_	LNIVGGHQ.A	AMQMLKDTIN	EEAAEWDRMH	PVQAGPMPPG	OMREPRGSDI
CRF06_cpx_	LNIVGGHQ.A	AMQMLKDTIN	EEAAEWDRVH	PAQAGPIPPG	OIRDPRGSDI
CRF11_cpx_	LNIVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVQAGPIAPG	OMRDPRGSDI
CRF11_cpx_	LNIVGGHQ.A	AMQMLKDTIN	EEAAEWDRVH	PVHAGPAPPG	OMREPRGSDI
D_CD_84ZR0	LNTVGGHQ.A	AMQMLKETIN	EEAAEWDRLH	PVQAGPVAPG	OMREPRGSDI
D_CD_ELI_K	LNTVGGHQ.A	AMQMLKETIN	EEAAEWDRLH	PVHAGPIAPG	OMREPRGSDI
D_CD_NDK_M	LNTVGGHQ.A	AMQMLKETIN	DEAAEWDRLH	PVHAGPVAPG	OMREPRGSDI
D_UG_94UG1	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPVAPG	OLREPRGSDI
F1_BE_VI85	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPAPPG	OMREPRGSDI
F1_BR_93BR	LNTVGGHQ.A	${\tt AMQMLKDTIN}$	EEAAEWDRLH	PTQAGPIPPG	OIREPRGSDI
F1_FI_FIN9	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPIPPG	OMREPRGSDI
F1_FR_MP41	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PAHAGPILPG	OMREPRGSDI
F2_CM_MP25	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPIPPG	OMREPRGSDI
F2KU_BE_VI	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPIAPG	OMREPRGSDI
G_BE_DRCBL	LNTVGGHQ.A	AMQMLKETIN	DEAAEWDRLH	PQQAGPIAPG	OIRDPTGSDI
G_NG_92NG0	LNTVGGHQ.A	AMQMLKDTIN	DEAAEWDRIH	PQQAGPIPPG	OIREPSGSDI
G_SE_SE616	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRMH	PQQAGPFPPG	QIREPRGSDI
H_BE_VI991	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPIPPG	OMREPRGSDI
H_BE_V1997	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRLH	PVHAGPIPPG	OMREPRGSDI
H_CF_90CF0	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRVH	PVHAGPIPPG	QMREPRGSDI
J_SE_SE702	LNTIGGHQ.A	AMQMLKDTIN	EEAAEWDRVH	PVHAGPVAPG	QVREPRGSDI
J_SE_SE788	LNTIGGHQ.A	AMQMLKDTIN	EEAAEWDRVH	PVHAGPIAPG	OVREPRGSDI
K_CD_EQTB1	LNTVGGHQ.A	AMQMLKDTIN	EEAAEWDRMH	PVQAGPIPPG	QIREPRGSDI
K_CM_MP535	LNTVGGHQ.A	AMQMLKDTIN	DEAAEWDRLH	PVHAGPIPPG	OMREPRGSDI
N_CM_YBF30	LNTVGGHQ.A	AMQMLKEVIN	EEAADWDRTH	PVPVGPLPPG	OLRDPRGSDI
O_CM_ANT70	LNAIGGHQ.G	ALQVLKEVIN	EEAVEWDRTH	PPPVGPLPPG	OIREPTGSDI
O_CM_MVP51	LNAIGGHQ.G	ALQVLKEVIN	EEAAEWDRTH	PPAMGPLPPG	OIREPTGSDI
O_SN_99SE_	LNAIGGHQ.G	ALQVLKEVIN	EEAAEWDRTH	PPAAGPLPVG	OIREPTGSDI
O_SN_99SE_	LNAIGGHQ.G	ALQVLKEVIN	EEAAEWDRTH	PQAAGPLPPG	OIREPTGSDI
U_CD83C	LNTVGGHQ.A	AMQMLKDTIN	EEAADWDRLH	PVHAGPIPPG	QMREPRGSDI
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•	251				
00BW0762_1	AGTTSTLQEQ	IAWMTS.NP	VPVGRTVKDW	TTT CI NIZI	300 MYSPVSILDI
00BW0768_2	AGTTSNLQEQ	IAWMTA NPI	VPVGEIYKRW	TILGUNKIVE	MYSPVSILDI
00BW0874_2	AGTTSTLQEQ	IAWMTS.NPI	PIPVGDIYKRW		MYSPVSILDI MYSPVSILDI
00BW1471_2	AGTTSTLQEQ	VAWMTS.NPI	VPVGDIYKRW	TITGINKTUE	MYSPVSILDI
00BW1616_2	AGTTSTLQEQ	IAWMTS.NPI	VPVGEIYKRW		MASBASIFDI
00BW1686_8	AGTTSNLQEQ	VAWMTS.NPI	IPVGDIYKRW		MYSPVSILDI
00BW1759_3		IAWMTS.NPF	VPVGDIYKRW		MYSPVSILDI
00BW1773_2		ITWMTS.NPF	VPVGDIYKRW		MYSPVSILDI
00BW1783_5		ITWMTS.NPF	IPVGDIYKRW		MYSPVSILDI
00BW1795 <u>6</u>		IAWMTS.NPF	IPVGDIYKRW		MYSPVSILDI
00BW1811_3		IAWMTN.NPF	IPVGDIYKRW		MYSPVSILDI
00BW1859_5	AGTTSTLQEQ	IAWMTG.NPF	VPVGDIYKRW	IILGLNKTVR	MYSPVSILDI
00BW1880_2		ITWMTS.NPF		IVLGLNKIVR	MYSPVSILDI
00BW1921_1		IAWMTN.NPF		IILGLNKIVR	MYSPVSILDI
00BW2036_1	AGTTSTLQEQ			IILGLNKIVR	MYSPVSILDI
00BW2063_6	_	IAWMTS.NPP		IILGLNKIVR	MYSPVSILDI
00BW2087_2	AGTTSTLQEQ		IPVGDIYKRW	IILGLNKIVR	MYSPVSILDI
00BW2127_2	AGTTTTLQEQ			IILGLNKIVR	MYSPVSILDI
00BW2128_3	AGTTSTLQEQ			IILGLNKIVR	MYSPVSILDI
00BW2276_7	AGTTSTLQEQ			IILGLDKIVR	MYSPVSILDI
00BW3819_3		VAWMTS.NPP		IILGLNKIVR	MYSPVSILDI
00BW3842_8	AGTTSNLQEQ			IVLGLNKIVR	MYSPVSILDI
00BW3871_3	AGTTSTLQEQ			IILGLNKIVR	MYSPVSILDI
00BW3876_9	AGTTSTLQEQ			IILGLNKIVR	MYSPVSILDI
00BW3886_8		IAWMTN.NPP		IILGLNKIVR	MYSPVSILDI
00BW3891_6	AGTTSNLQEQ			IILGLNKIVR	MYSPVSILDI
00BW3970_2	AGTTSTLQEQ	IAWMTN.NPP		IVLGLNKIVR	MYSPVSILDI
00BW5031 <u>1</u> 96BW01B21	AGTTSTLQEQ	IAWMTS.NPP		IILGLNKIVR	MYSPVSILDI
96BW0407	AGTTSNLQEQ	IAWMTA.NPP	VPVGDIYKRW	IILGLNKIVR	MYSPVSILDI
96BW0502	AGTTSTLQEQ AGATSTLQEQ	IAWMTS.NPP	IPVGDIYKRW	IILGLNKIVR	MYSPVSILDI
96BW06 J4	AGAISTLOEQ		VPVGDIYKRW	IILGLNKIVR	MYSPVSILDI
96BW11 06	AGTTSTLQEQ	IGWMTH.NPP	IPVGDIYKRW	IILGLNKIVR	MYSPVSILDI
96BW1210	AGTTSNLQEQ	IAWMTS.NPP INWMTS.NPP	IPVGDIYKRW	IILGLNKIVR	MYSPVSILDI
96BW15B03	AGTTSTLQEQ	IAWMTS.NPP	IPVGDIYKRW	IILGLNKIVR	MYSPVSILDI
96BW16 26	AGTTSTLQEQ	IAWMTS.NPP	IPVGDIYKRW	IILGLNKIVR	MYSPVSILDI
96BW17A09	AGTTSTLQEQ	IAWMIN.NPP	VPVGEIYKRW	IILGLNKIVR	MYSPVSILDI
96BWM01_5	AGTTSTLQEQ	IAWMIN.NPP	IPVGDIYKRW	ITMGLNKIVR	MYSPVSILDI
96BWM03 2	AGSTSTLQEQ	IAWMTS.NPP	IPVGDIYKRW	IILGLNKIVR	MYSPVSILDI
98BWMC12 2	AGSTSNLQEQ	IAWMTS.NPP	VPVGDIYKRW	IILGLNKIVR	MYSPVSILDI
98BWMC13 4			IPVGDIYKRW	IILGLNKIVR	MYSPVSILDI
98BWMC14 a		VGWMTC NDD	VPVGEIYKRW	LILGLNKIVR	MYSPVSILDI
	AGTTSTLOEO	TAWMTS NDD	IPVGDIYKRW	IILGLNKIVR	MYSPVSILDI
98BWM018_d	AGTTSTLOEO	IAWMTS NDD	IPVGDIYKRW	ILLGLNKIVR	MYSPVSILDI
98BWMO36_a	AGTTSTLOEO	IAWMTS NPP	IPVGDIYKRW	TILGUNKIVR	MYSPVSILDI
98BWM037_d	AGTNSTLOEO	IAWMTN NPP	VPVGDIYKRW	TIMGLNKIVR	MYSPVSILDI
99BW3932_1	AGTTSTLQEQ	IOWMTS.NPP	TPVGDTVKDW	TILGUNKIVR	MYSPVSILDI
99BW4642 <u>4</u>	AGTTSTLOEQ	VTWMTS NPP	VDAGDIAKAM	TILGUNKIVR	MYSPVSILDI
99BW4745_8	AGTTSTLQEQ	INWMTG.NPP	TPVGDTVKPW	TIMOLINKIVE	MYSPVSILDI
99BW4754_7	AGTTSTLOEQ	ITWMTN.NPP	IPVGRTYKPW	TIMGUMKIVK	MYSPVSILDI
99BWMC16_8	AGTTSTLQEQ	IAWMTS.NPP	VPVGEIYKRW	TILGUNKIVR	MYSPVSILDI
A2_CD_97CD	WONTOWINGEO	TOWMIS . NPP	IPVGEIYKRW	TTLCLNWTVD	MMODIFORT
A2_CY_94CY	MOTIDINGEO	TGMMIS.DPP	IPVGETYKRW	TTT.CT.NTCTTO	MUCDIOTES
A2D97KR	AGTTSTLQEQ	IGWMTS.NPP	VPVGEIYKRW	TTIGINKTYK	WASDAGET 22
A2G_CD_97C	• • • • • • • • •	• • • • • • • • • •			
A_BY_97BL0	WOLIDITOFO	IGAMIS.NPP	IPXGDIYKRX	TTTCTMVTVD	MICONICATION
A_KE_Q23_A	MGITSIPORO	IGWMIG.NPP	IPVGDTYKRW	TILCIATETAN	WYODITO
A_SE_SE659					
A_SE_SE725					
A_SE_SE753	AGTTSTPQEQ	IGWMTG.NPP	IPVGDIYKRW	IILGLNKTVP	MYSDVSTIDT

A_SE_SE853	• • • • • • • • • •	• • • • • • • • • •		• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
A_SE_SE889		• • • • • • • • • •		• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
A_SE_UGSE8	AGTISTLQEQ	IAWMTS.NPI	VPVGDIYKRW	TTT.CIT.NIWTY	Mania
A_UG_92UG0	11011010	TEMMITG'WEE	, TEARDIAKEM	MTT.CIT.NIZITAT	R MYSPVSILDI
A_UG_U455_		TGMMIG.MPF	, Thacdiagn	I IILGLNKIVI	R MYSPVSILDI
AC_IN_2130	AGTTSTLQEQ	IAWMTG.NPP		IILGLNKIVI	R MYSPVSILDI
AC_RW_92RW		IAWMTN.NPP	PIPVGEIYKRW	IILGLNKIV	R MYSPVSILDI
AC_SE_SE94	· · · · · · · · · · · · · · · · · · ·	•••••••	••••••	• • • • • • • • • •	
ACD_SE_SE8	AGTTSTLQEQ	IAWMTS.NPP		IILGLNKIVE	MYSPVSILDI
ACG_BE_VI1	AGTTSTLQEQ	IGWMTS.NPP		IILGLNKIVE	NYSPVSILDI
AD_SE_SE69		IGWMTS.NPP	IPVGEIYKRW	IILGLNKIVE	MYSPVSILDI
AD_SE_SE71 ADHK NO 97	**************************************		• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •
	AGITSTLQEQ	IGWMTS.NPP		IILGLNKIVE	MYSPVSILDI
ADK_CD_MAL AG BE VI11	AGTTSTLQEQ	IGWMTS.NPP		IILGLNKIVE	MYSPVSILDI
	AGSTSTLQEQ	VGWMTS.NPP		IILGLNKIVE	MYSPVSILDI
AG_NG_92NG AGHU GA VI	AGTTSTLQEQ	ITWMTS.NPP		IILGLNKIVE	MYSPVSILDI
	AGTTSTTQEQ	IGWMTG.NPP		IILGLNKIVE	MYSPVSILDI
AGU_CD_Z32 AJ BW BW21	AGTTSTLQEQ	IRWMTS.NPP		IILGLNKIVE	MYSPVSILDI
B_AU_VH_AF	AGITSTLOEQ	IGWMTS.NPP		IILGLNKIVR	MYSPVSILDI
B_AU_VH_AF B_CN_RL42	AGTTSTLQEQ	IGWMTN.NPP		IILGLNKIVR	MYSPTSILDI
B DE D31 U	YGLL2LTÖEÖ	IGWMTN.NPP	IPVGEIYKRW	IILGLNKIVR	MYSPTCILDI
B_DE_HAN U	AGTTSTLQEQ	IGWMIN.NPP	IPVGEIYKRW	IILGLNKIVR	MYSPTSILDI
B_FR_HXB2	AGTTSTLQEQ	IGWMTN.NPP	IPVGEIYKRW	IILGLNKIVR	MYSPTSILDI
B GA OYI	AGTTSTLQEQ	IGWMIN.NPP	IPVGEIYKRW	IILGLNKIVR	MYSPTSILDI
B GB CAM1	AGTTSTLQEQ	IGWM'IN.NPP	IPVGEIYKRW	IILGLNKIVR	MYSPTSILDI
B GB GB8 A	AGTTSTLQEQ AGTTSTLQEQ	IGWMIN.NPP	IPVGEIYKRW		MYSPTSILDI
B GB MANC			IPVGEIYKRW		MYSPVSILDI
B KR WK AF	AGTTSTLQEQ	TGWMIN.NPP	IPVGEIYKRW	IILGLNKIVR	MYSPTSILDI
B NL 3202A	AGTTSTLQEQ		IPVGEIYKRW	IILGLNKIVR	MYSPASILDI
B TW TWCYS	AGTTSTLQEQ AGTTSTLQEQ	TGWMTH.NPP	IPVGEIYKRW	IILGLNKIVR	MYSPTSILDI
B_US_BC_LO	AGTTSTLQEQ		IPVGEIYKRW	IILGLNKIVR	MYSPTSILDI
B US DH123	AGTTSTLQEQ		IPVGEIYKRW	IILGLNKIVR	MYSPSSILDI
B US JRCSF	AGTTSTLQEQ		IPVGEIYKRW	IIMGLNKIVR	MYSPTSILDI
B US MNCG	AGTTSTLQEQ		IPVGEIYKRW	IILGLNKIVR	MYSPVSILDI
B US P896	AGTTSTLQEQ	TCWMTN.NPP	IPVGEIYKRW	IILGLNKIVR	MYSPSSILDI
B US RF M1	AGTTSTLQEQ		IPVGEIYKRW	IILGLNKIVR	MYSPSSILDI
B_US_SF2_K	AGTTSTLQEQ		IPVGEIYKRW	IILGLNKIVR	MYSPISILDI
B US WEAU1	AGTTSTLQEQ		IPVGEIYKRW	IILGLNKIVR	MYSPTSILDI
B_US_WR27	AGXTSTLXXX	TOWMTH VDD	IPVGEIYKRW	IILGLNKIVR	MYSPVSILDI
B_US_YU2 M	AGTTSTLQEQ	TCMMTM MPD	IPVGEIYKRW	IILGLNKIVR	MYSPTSILDI
BF1_BR_93B	AGTTSTLOEO	TOWMTR NEE	IPVGEIYKRW	IILGLNKIVR	MYSPTSILDI
C BR 92BR0	AGTTSTLQEQ AGTTSTLOEO	TOWNITS.NPP	VPVGETYKRW	IILGLNKIVR	MYSPTSILGI
C BW 96BW0	AGTTSTLQEQ AGTTSTLOEO	TAWMIN.NPP	VPVGDIYKRW	IILGLNKIVR	MYSPVSILDI
C_BW_96BW1	AGTTSTLQEQ AGTTSTLOEO	TAWMTC NEE	TRIGRITICAL	IILGLNKIVR	MYSPVSILDI
C_BW_96BW1	AGTTSTLQEQ AGTTSNLOEO	TNWMTE NOD	IPVGDIYKRW	IILGLNKIVR	MYSPVSILDI
C_BW_96BW1	AGTTSNLQEQ AGTTSTLOEO	TAWMTS.NPP	TPVGDIYKRW	IILGLNKIVR	MYSPVSILDI
C ET ETH22	AGTTSTLQEQ AGTTSTLOEO	TAWMTG NTO	TEAGDTAKEM	IILGLNKIVR	MYSPVSILDI
C IN 93IN1	AGTTSTLQEQ AGTTSSLOEO	TAWMTG NOD	ABACDIAKEM	ITLGLNKIVR	MYSPVSILDI
C_IN_93IN9	AGTTSSLQEQ AGTTSSLOEO	TAWMTG NDD	VEAGDIIVEM	11LGLNKIVR	MYSPVSILDI
C_IN_93IN9	AGTTSSLQEQ AGTTSTLOEO	TAWMTG NPP	VPVGDIIKKW	TILGLNKIVR	MYSPVSILDI
C_IN_94IN1	AGTTSTLQEQ AGTTSTLOEO	IAWMTS NED	A L AGDT T KKM	TILGLNKIVR	MYSPVSILDI
C_IN_95IN2	AGTTSTLQEQ AGTTSTLQEQ	IAWMTN MDD	A E AGET I KKM	TILGUNKIVR	MYSPVSILDT
CRF01 AE C	XGTTSNLOEO	IGWMTS NEE	AE AGDI XKKM	TILGLNKIVR	MYSPVSILDI
CRF01_AE_C	XGTTSNLQEQ AGTTSTLHEO	IGWMTS NED	TEAGDT AKKM	TILGUNKIVR	MYSPVSILDI
CRF01 AE C	AGTTSTLHEQ AGTTSTLOEO	IGWMTS MEP	TEAGET I KKM	TILGUNKIVR	MYSPVSILDI
CRF01 AE T	AGTTSTLQEQ AGTTSTLOEO	IGWMTN NDD	AEAGETXKKM	TILGLNKIVR	MYSPVSILDI
CRF01 AE T	AGTTSTLQEQ AGTTSTLOEO	IGWMTN NDD	TEAGDIANCE.	TILGLNKIVR	MYRPVSILDI
CRF01 AE T	AGTTSTLQEQ AGTTSTLOEO	IGWMTN NDD	T DAGD TAXOG	TILGENKIVR	MYSPVSILDI
	AGTTSTLQEQ :	IGWMTNI NIDD	T DAGGETANOM.	TILGENKIVR	MYQPVSILDI
	AGTTSTLQEQ	IGWMTN NDD	TDAGDIAND	TILGUNKIVR	MYSPVSILDI
- -	~- £ \		AGDIIVKM	TTDGTMKIVE	MYSPVSILDI

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CRF01_AE_T AGTTSTLQEQ IGWMTS.NPP IPVGDIYKRW IILGLNKIVR MYSPVSILDI
    CRF02_AG_F AGTTSTPQEQ IGWMTS.NPP IPVGDIYKRW IILGLNKIVR MYSPVSILDI
    CRF02 AG F AGTTSTLQEQ IGWMTS.NPP IPVGDIYKRW IILGLNKIVR MYSPVSILDI
    CRF02_AG_G AGTTSNLQEQ IAWMTG.NPP IPVGEIYKRW IVLGLNKIVR MYSPVGILDI
    CRF02_AG_N AGTTSTLQEQ IGWMTS.NPP IPVGEIYKRW IVLGLNKIVR MYSPVSILDI
    CRF02_AG_S AGTTSTLQEQ IGWMTS.NPP IPVGEIYKRW IVLGLNKIVR MYSPVSILDI
    CRF02_AG_S AGTTSTLQEQ IGWMTS.NPP IPVGDIYKRW IILGLNKIVR MYSPVSILDI
    CRF03_AB_R AGSSSTLQEQ IGWMTS.NPP IPVGDIYKRW IILGLNKIVR MYSPVSILDI
    CRF03_AB_R AGTTSTLQEQ IGWMTS.NPP IPVGDIYKRW IILGLNKIVR MYSPVSILDI
   CRF04_cpx_ AGTTSTLQEQ IGWMTS.NPP VPVGEIYKRW IILGLNKIVR TYSPISILDI
CRF04_cpx_ AGTTSTLQEQ IGWMTS.NPP IPVGEIYKRW IILGLNKIVR MYSPVSILDI
CRF04_cpx_ AGTTSTLQEQ VGWMTS.NPP IPVGDIYKRW IILGLNKIVR MYSPVSILDI
CRF05_DF_B AGTTSTLQEQ IAWMTN.NPP IPVGEIYKRW IILGLNKIVR MYSPVSILDI
    CRF05_DF_B AGTTSTLQEQ ITWMTN.NPP IPVGEIYKRW IILGLNKIVR MYSPVSILDI
  CRF05_DF_B

CRF06_CPX_
CRF11_CPX_
D_CD_84ZRO
D_CD_ELI_K
AGTTSTLQEQ IAWMTS.NPP IPVGEIYRW IIVGLNKIVR MYSPVSILDI
D_CD_NDK_M
AGTTSTLQEQ IAWMTS.NPP IPVGEIYRW IIVGLNKIVR MYSPVSILDI
D_UG_94UG1
F1_BE_V185
F2_CM_MP25
F2_CM_MP25
F2_CM_MP25
F2_CM_MP25
F2_CM_MP25
F2_CM_MP25
F2_CM_MP25
F2_CM_MP25
F2_CM_MP26
F3_BE_DRCBL
G_BE_DRCBL
G_SE_SE616
AGTTSTLQEQ IRWMTS.NPP VPVGEIYRW
H_BE_VI991
AGTTSTLQEQ IRWMTG.NPP IPVGEIYRW
H_BE_VI997
AGTTSTLQEQ IAWMTG.NPP IPVGEIYRW
JPVGDIYRW
JPVGIYRW
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JSE_SE702
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JILGLNKIVR MYSPVSILDI
JSE_SE788
AGTTSTLQEQ IAWMTG.NPP IPVGEIYRW
JILGLNKIVR MYSPVSILDI
JSE_SE788
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JILGLNKIVR MYSPVSILDI
JSE_SE788
A
   D_CD_ELI_K AGTTSTLQEQ IAWMTS.NPP IPVGEIYKRW IIVGLNKIVR MYSPVSILDI
 N_CM_YBF30 AGTTSTLAEQ VAWMTA.NPP VPVGDIYRRW IVLGLNRIVR MYSPVSILEI
 O_CM_ANT70 AGTTSTQQEQ IHWTTRPNQP IPVGDIYRKW IVLGLNKMVK MYSPVSILDI
O_CM_MVP51 AGTTSTQQEQ IIWTTRGANS IPVGDIYRKW IVLGLNKMVK MYSPVSILDI
 O_SN_99SE_ AGTTSTQQEQ VHWITRPNQP IPVGDIYRKW IVLGLNKVVK MYSPVSILDI
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U_CD__83C AGTTSTLQEQ IGWMTS.NPP IPVGDIYKRW IILGLNKIVR MYSPVSILDI
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 00BW1759_3 RQGPKEPFRD YVDRFFKTLR AEQATQEVKN WMTDTLLIQN ANPDCKTILK
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00BW1859_5 RQGPKEPFRD YVDRFFKTLR AEQATQDVKN WMTDTLLVQN ANPDCKTILR
00BW1880_2 KQGPKEPFRD YVDRFFKTLR AEQATQEVKN WMTDTLLVQN ANPDCKTILR
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00BW1921_1	KQGPKEPFR	D YVDRFFKTL	R AEQSSQEVK	N WMTDTIJ.VO	N ANPDCKTILR
00BW2036_1					
00BW2063_6					
00BW2087_2					
00BW2127_2			X ACUAITIIVK	AL MANDED TO THE TERM	N ANPDCKTILK N ANPDCKTILR
00BW2128_3 00BW2276 7			X AGUATUINK		N ANPDCKTILR
	KQGPKEPFRI	O YVDRFFKTLI	R AECATODAR	NT LIMITION T T TO	N ANPDCKTILR
00BW3819_3 00BW3842_8	RQGPKEPFRI	O YVDRFFKTLI	R AEOATODVK	N MMTDTTTTO	N ANPDCKTILR
00BW3842_8	KÖGEKEEFKI) YVDRFFKTLI	S AEOATODUM	N WWW.	N ANPDCKTILR
00BW3871_3	KOGPKEPFRI	YVDRFFKTLI	R AEQATQDVK	AT LIMITUTION TO THE A	N ANPDCKTILR
00BW3886_8	KÖGEKEELKI) YVDRFFKTLE	R AEOATODUKO	MINIOTE TACE	N ANPDCKTILK
00BW3886_8	KQGPKEPFRI	YVDRFFRTL	R AEQATQDVK	A TAIMITINGS T TYPE	N ANPDCKTILR
00BW3891_8	VÕGAKEALKI	YVDRFFKTLE	R AEQATQDVK	A TOTAL T TOTAL	N ANPDCKTILR
00BW5031 1	KOGDKEDER	YVDRFFKTLE	R AEQATQDVK	T MUTUAL TARAN	N ANPDCKTILR
96BW01B21	KOGPKEPFRI	YVDRFFKTLF	S AEQATQDVKI	ACT THE CHINGS T	N GNPDCKNILR
96BW0407	VOGPKEPFRI	YVDRFFKTLF	AEQATQDVKI	$\kappa \cap v_{t-1}$, the contract V	N ANPDCKTILR
96BW0502	KQGPKEPFRI		AEQSTQEVK	NOV.T.TTCTMW V	N ANPDCKTILR
96BW06 J4	ROGPKEPFRI		AEQATQDVK	J WMTTTT.T.TION	N ANPDCKTILR
96BW11_06	KOGPKESFRI		AEQCTQDVK	$\mathbf{v} \cap v$, \mathbf{r} , $\mathbf{r} \cap \mathbf{r} \cap \mathbf{M} \mathbf{W} = \mathbf{v}$	N ANPDCKTILR
96BW1210	KQGPKESFRI		AEQSSQEVK	$\mathbf{v} \cap v$. The sum \mathbf{v}	ANPDCRTILK
96BW15B03	KQGPKEPFRI RQGPKEPFRI		AEQATQDVK	$I \cap V$, I , $I \cap V \cap V$	ANPDCKTILR
96BW16_26	RQGPKEPFRE		AEQATQDVK	I = WMTTTTTTT	ANPDCKPILR
96BW17A09	KQGPKEPFRD		AEQATQDVK	J WMTTTT.T.VON	ANPDCKTILR
96BWM01 5	KQGPKEPFRD		AEQATQDVK	$I \cap V$, I, I $T \cap T \cap MW$	ANPDCKTILR
96BWMO3_2	KOGPKEPFRD		AEQSSQEVK	MOV.T.TTCTTMW	ANPDCKTILR
98BWMC12_2	KQGPKEPFRD		AEQATQDVK	I WMTTOTT.T.XXCN	ANPDCKTILR
98BWMC13 4	KQGPKESFRD		AEQATQEVKO	WMTDTLLIQN	ANPDCKTILR
98BWMC14_a	KQGPKEPFRD		AEQATREVK	I WMTDTT.T.TON	ANPDCKTILR
98BWM014 1	ROGPKEPFRD		AEQATQEVKI	WMTETLLVQN	ANPDCKTILR
98BWM018_d	KQGPKEPFRD		AEQATQDVKN	MMTDTLLVQN	ANPDCKTILR
98BWM036_a	RQGPKEPFRD		AEQSTQEVKN	WMTDTLLVQN	ANPDCKTILR
98BWM037 d	RQGPKEPFRD		AEQATQEVKN	MMTDTLLVQN	ANPDCKTILR
99BW3932 1	RQGPKEPFRD		AEQATQEVKN	WMTDTLLVQN	ANPDCKTILR
99BW4642_4	ROGPKEPFRD		AEQATQDVKN	WMTETLLVQN	ANPDCKTILR
99BW4745_8	KQGPKEPFRD		AEQATQEVKN	MMTDTLLVQN	ANPDCKTILR
99BW4754_7	KQGPKEPFRD		AEQATQEVKN	WMADTLLVQN	ANPDCKTILR
99BWMC16 8	KQGPKEPFRD	TADKELKITK	AEQSTQDVKN	MMTDTLLVQN	ANPDCKTILR
A2_CD_97CD	KQGPKEPFRD		AEQASQDVKN	WMTDTT.T.TOM	A ATDO Green To -
A2_CY_94CY	RQGPKEPFRD	TARKETITIE	AEQATOEVKN	WMTDTT.T.VAN	AMDDARATE
A2D 97KR	ROGPKEPERD				
A2G_CD_97C		TADVELVIDE	AEUATOEVKN	MMTTTTTTTTTT	7 3 7 D D C T T T T T T T T T T T T T T T T T
A_BY_97BL0					
A_KE_Q23_A	KOGPKEPFRD	AADKEEKUED	AEQATQDVKN	WMTETLLVQN	ANPDCKTILR
A_SE_SE659		TVERTERIER	AFÓATÓDAKN	MWIDITTAÓN MWIEITTAÓN	ANPDCKAILR
A_SE_SE725					
A_SE_SE753					
A_SE_SE853					
A_SE_SE889	• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	MMIEITTION	• • • • • • • • • •
A_SE_UGSE8	KQGPKEPFRD	YVDRFFKALD	A FOATOFUZA	WMTDTLLVQN	• • • • • • • • • •
A_UG_92UG0	KQGPKEPFRD	YVDRFFKTLR	VECATOE ANG	WMTETLLIQN	ANPDCKSILR
A_UG_U455_	RQGPKEPFRD	YVDRFFKTLR	THE PROPERTY OF A VICE	WMTETLLIQN	ANPDCKSILR
AC_IN_2130	KQGPKEPFRD	YVDRFFKTLR	VICATOD AND	MMIRITPOON	ANPDCKSILR
AC_RW_92RW				MWLDLFFAÖN MWLDLFFAÖN	
AC_SE_SE94					
ACD_SE_SE8	RQGPKEPFRD	YVDRFFKTT.P	AEODTOETTOE	**************************************	••••••
ACG_BE_VI1					
AD_SE_SE69	RQGPKEPFRD RQGPKEPFRD	YVDRFYKTT.D	y EOy GBD/11121. ∙∞⊼wTÄDΛKW	WITTLTLL TVON	ANPDCRTILR
AD_SE_SE71			ABUASRIIVKN	MINIOPETER TRANSF	3 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
ADHK_NO_97				MAMBER S	
ADK_CD_MAL	RQGPKEPFRD	YVDRFFKTTIP	ΣΕΟΣΩΟΕΩΝΑΣ -~~ΧΩΤΩΕΛΙΝ	MMLLD.T.P.FAÖN	ANPDCKTILK
		·		WATELTPACK !	ANPDCKTILK

AG BE VI11	DOGDKEDEDD	VIDD DERMIT D	350350555		
AG_NG_92NG	KOGDKEDEDD	AMBREAMIN	AEQATQEVKN	WMTETLLVQN	ANPDCKSILK
AG_NG_52NG AGHU GA VI	DOCDKEDEDE	IADKLLYIPK	AEQATQEVKN	WMTDTLLVQN	ANPDCKTILR
AGU_CD_Z32	KOCDKEDERD	IVDREFKTLR	AEQATQEVKN	WMTETLLVQN	ANPDCKTILR
AJ BW_BW21	VÕGEKEREKD	IVDRFFKTLR	AEQATQEVKG	MMTDTLLVQN	ANPDCKTILR
B AU VH AF	KOCDKEDEDD	IVDRFFKTLR	AEQASQDVKN	WMTETLLVQN	ANPDCKTILK
	DOCUMENTAN	YVDRFYRTLR	AEQASQEVKN	WMTETLLVQN	ANPDCRTILK
B_CN_RL42_	ROGPKEPFRD	YVDRFYKTLR	AEQASQDVKN		
B_DE_D31_U	KOGPKEPFRD	YVDRFYKTLR	AEQATQEVKN	-	ANPDCKTILK
B_DE_HAN_U	RQGPREPFRD	YVDRFYKTLR	AEQATQEVKN	-	ANPDCKTILK
B_FR_HXB2_	RQGPKEPFRD	YVDRFYKTLR	AEQASQEVKN	_	ANPDCKTILK
B_GA_OYI	ROGPKEPFRD	YVDRFYKTLR	AEQASQDVKN	-	ANPDCKTILK
B_GB_CAM1_			AEQASQEVKN		ANPDCKTILK
B_GB_GB8_A	RQGPKEPFRD	YVDRFYKTLR	AEQASQDVKN		
B_GB_MANC_	RQGPKEPFRD	YVDRFYKTLR	AEQASQEVKN	MMTETLLVQN	ANPDCKTILK
B_KR_WK_AF	RQGPKEPFRD	YVDRFYKTLR	AEQASQEVKN	WMTETLLVQN	ANPDCKTILK
B_NL_3202A	RQGPKESFRD	YVDRFYKTLR	AEQASQEVKN	WMTETLLVQN	ANPDCKTILK
B_TW_TWCYS	RQGPKEPFRD	YVDRFYKTLR	TEQASQDVKN		ANPDCKTILK
B_US_BC_L0	RQGPKESFRD	YVDRFYKTLR	AEQASQEVKN		ANPDCKTILK
B_US_DH123	RQGPKEPFRD	YVDRFYKTLR	AEQASQEVKN	WMTETLLVQN	SNPDCKTILK
B_US_JRCSF	RQGPKEPFRD	YVDRFYKTLR	AEQATQEVKN	WMTETLLVQN	ANPDCKTILK
B_US_MNCG_	RQGPKEPFRD	YVDRFYKTLR	AEQASQEVKN	RTTETLLVQN	ANPDCKTILK
B_US_P896_	KQGPKEPFRD	YVDRFYKTLR	AEQASQEVKN	WMTETLLVQN	ANPDCKTILK
B_US_RF_M1	RQGPKEPFRD	YVDRFYKTLR	AEQASQDVKN	WMTETFLVQN	ANPDCKTILK
B_US_SF2_K	RQGPKEPFRD	YVDRFYKTLR	AEQASQDVKN	WMTETLLVQN	ANPDCKTILK
B_US_WEAU1	RQGPKEPFRD	YVDRFYKTLR	AEQATQEVKN	WMTETLLVQN	ANPDCKTILK
B_US_WR27_	RQGPKEPFRD	YVDRFYKTLR	AEQASQEVKN	WMTETLLVON	ANPDCKTILK
B_US_YU2_M			AEQASQEVKN	WMTETLLVQN	ANPDCKTILK
BF1_BR_93B	RQGPKEPFRD	YVDRFYKTLR	AEQTSQDVKN		ANPDCKTILK
C_BR_92BR0			AEQATQDVKN	WMTDTLLVQN	ANPDCKTILR
C_BW_96BW0	KQGPKEPFRD	YVDRFFKTLR	AEQSTQEVKN		ANPDCKTILR
C_BW_96BW1	KQGPKESFRD	YVDRFFKTLR	AEQSSQEVKN		ANPDCRTILK
C_BW_96BW1	KQGPKEPFRD	YVDRFFKTLR	AEQATQDVKN		ANPDCKTILR
C_BW_96BW1	RQGPKEPFRD	YVDRFFKTLR	AEQATQDVKN		ANPDCKPILR
C_ET_ETH22	KQGPKEPFRD	YVDRFFKTLR	AEQATQDVKN		ANPDCKTILR
C_IN_93IN1	RQGPKEPFRD	YVDRFFKTLR	AEQATQDVKN		ANPDCKTILR
C_IN_93IN9	KQGPKEPFRD	YVDRFFKTLR	AEQATQDVKN		ANPDCKTILR
C_IN_93IN9	KQGPKEPFRD	YVDRFFRTLR	AEQATQDVKN	WMTDTLLVON	ANPDCKTILR
C_IN_94IN1	KQGPKEPFRD	YVDRFFKTLR	AEQATQDVKN	WMTDTLLVQN	
C_IN_95IN2	RQGPKEPFRD	YVDRFFKTLR	AEQATQDVKN	~	ANPDCKTILR
CRF01_AE_C	RQGPKEPFRD	YVDRFFKTLR	AEQATQEVKN	WMTETLLVON	ANPDCKSTLK
CRF01_AE_C	RQGPKEPFRD	YVDRFFKTLR	AEQATQEVKN	WMTETLLVON	ANPDCKSTLK
CRF01_AE_C	RQGPKEPFRD	YVDRFFKTLR	AEQATQEVKN	WMTETLLVON	ANPDCKSTIK
CRF01_AE_T	RQGPKEPFRD	YVDRFYKTLR	AEQATQEVKN	WMTETLLVON	ANPDCKSTLK
CRF01_AE_T	RQGPKEPFRD	YVDRFYKTLR	AEQATQEVKN	WMTETLLVON	ANPDCKSTLK
CRF01_AE_T	RQGPKEPFRD	YVDRFYKVLR	AEQATQEVKN	WMTETLLVON	ANPDCKSTLK
CRF01_AE_T	RQGPKEPFRD	YVDRFYKTLR	AEQATQEVKN	WMTETLLVON	ANPDCKSTLK
CRF01_AE_T	RQGPKEPFRD	YVDRFYKTLR	AEQATQEVKN	WMTETLLVON	ANPOCKSTLK
CRF01_AE_T	RQGPKEPFRD	YVDRFYKTLR	AEQATQEVKN	WMTETLLVON	ANPOCKSTLK
CRF02_AG_F	RQGPKEPFRD	YVDRFFKTLR	AEQATQEVKN	RMTETLLVON	ANPOCKSTLD
CRF02_AG_F	RQGPKEPFRD	YVDRFFKTLR	AEQATQEVKN	WMTETLLVON	ANDDCKSTLD
CRF02_AG_G	RQGPKEPFRD	YVDRFFKTLR	AEQATQEVKN	WMTETLLVON	ANDUCKALL'S
CRF02_AG_N	RQGPKEPFRD	YVDRFFKTLR	AEQATQEVKN	WMTETLLVQN	
CRF02 AG S	RQGPKEPFRD	YVDRFFKTLR	AEQATQDVKN	WMTETTIVON	ANDDOKSTLE
CRF02 AG S	RQGPKEPFRD	YVDRFFKTLR	AEQATQEVKN	WMTETLLVON	CMUDCULLIN
CRF03 AB R	RQGPKEPFRD	YVDRFFKTLR	AEQATQDVKN	WMTETTITION	PMDDCKETTIV
CRF03 AB R	RQGPKEPFRD	YVDRFFKTTIP	AEQATQDVKN	MALE TITLA ON	VMDDCAMAT A VMCDCVI,TPK
CRF04_cpx_	ROGPKEPFRD	YVDRFFKCT	AEQATQEVKN	MALE THO A ON	WILDCRUTTER
CRF04 cpx	ROGPKEPFRD	YVDRFFKCLP	AEQATQEVKN	MMARALLACI	WILDCKOLLA
CRF04_cpx_	ROGTKEPFRD	YVDRFFKCT.P	AEQATQEVKN	MMJEDI 1 1101	WANDOWSTER
CRF05 DF B	ROGPKEPFRD	YVDRFVKTT.P	AEQATQEVKN	MMADALLTAN	WINDOWSTIK
CRF05 DF B	ROGPKEPERD	AADBBAKATT'S	AEQAIQEVKN AEQASQDVKN	MALTETTTA	MNFDCKTILK
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CRF06_cpx_	KQGPKEPFRD	YVDRFFKTLR	AEQATQEVĶN	WMTDTT.T.VOX	AMDDOWNERD
CRF06_cpx	ROGPKEPFRD	YVDRFFKTLR	AEQATQEVKN	MOVILITUDIAM	MANDOCKITTIK
CRF06_cpx_	ROGPKEPFRD	YVDRFFKTLR	AEQATQEVKN	MALDIDIAM	ANPOCKTILK
CRF06_cpx_	ROGPKEPFRD	YVDRFFKTLR	AEQATQEVKN	MMIDITION	ANPOCKTILK
CRF11_cpx_	KQGPKEPFRD	YVDRFFKALR	AEQATQEVKG	MMIDITION	ANPDCKTILK
CRF11 cpx	RQGPKEPFRD	VVDDEEKTED	VEOV COEMAN	MMIDITITION	ANPOCKSILR
D CD 84ZRO	ROGPKEPFRD	VINDEVENTE	AEQASQEVKN	WMIEILLVQN	ANPDCKSILR
D CD ELI K	ROGPKEPFRD	AMDEANMED	AEQASQEVKN	MMIEITTAÖN	ANPDCKTILK
D CD NDK M	ROGPKEPFRD	IADKLIVITK	AEQASQDVKN	WMTETLLVQN	ANPDCKTILK
D UG 94UG1		IVDREIKTLK	AEQASQDVKN		ANPDCKTILK
F1 BE VI85	ROGPKEPFRD	YVDRFYKTLR	AEQASQDVKN		ANPDCKTILK
	KQGPKEPFRD	YVDRFFKVLR	AEQASQDVKG	MMTDTLLVQN	ANPDCKTILK
F1_BR_93BR	ROGPKEPFRD	YVDRFFKTLR	AEQATQEVKG	WMTDTLLVQN	ANPDCKTILK
F1_FI_FIN9	RQGPKEPFRD	YVDRFFKALR	AEQATQEVKG	WMTDTLLVQN	ANPDCKIILK
F1_FR_MP41	RQGPKEPFRD	YVDRFFKTLR	AEQASQEVKN	WMTESLLVQN	SNPDCKTILK
F2_CM_MP25	KQGPKEPFRD	YVDRFFKTLR	AEQATQEVKG	WMTETLLVQN	ANPDCKTILK
F2KU_BE_VI	KQGPKEPFRD	YVDRFFKTLR	AEQATQEVKN	WMTDTLLION	ANPDCKTTLK
G_BE_DRCBL	RQGPKEPFRD	YVDRFFKTLR	AEQATQEVKS	WMTDTLLIQN	ANPDCKIILK
G_NG_92NG0	RQGPKEPFRD	YVDRFFKTLR	AEQATQEVKG	WMTDTLLVON	ANPDCKTILR
G_SE_SE616	RQGPKEPFRD	YVDRFFKCLR	AEQASQDVKG	WMTDTLLVON	ANPDCKTILR
H_BE_VI991	KQGPKEPFRD	YVDRFFRVLR	AEQATQDVKN	WMTDTLLVON	ANPDCRTTLK
H_BE_VI997	KQGPKEPFRD	YVDRFFKTLR	AEQATQEVKN	WMTDTLLVON	ANPOCKTILE
H_CF_90CF0	KQGPKEPFRD	YVDRFFKTLR	AEQATQDVKN	WMTETLLVON	ANPOCKTILE
J_SE_SE702	RQGPKEPFRD	YVDRFFKALR	AEQATQDVKN	WMTDTLLVQN	ANDDOKTILK
J_SE_SE788	RQGPKEPFRD	YVDRFFKALR	AEQATQDVKN	WMTDTLLVQN	
K_CD_EQTB1	RQGPKEPFRD	YVDRFFRVLR	AEQATQEVKN		ANPDCRTILK
K_CM_MP535	RQGPKEPFRD	YVDRFFKTLR	AEQATQEVKN	WMTDTLLVQN	
N CM YBF30	KQGPKEPFRD	YVDRFYKTLR	AEQATQEVKN		ANPDCKILLK
O CM ANT70	KQGPKEPFRD		AEQATQEVKN	WMTETLLVQN	
O CM MVP51	RQGPKEPFRD	YVDRFYKTLR	AEQATQEVKN		SNPDCKQILK
O SN 99SE	RQGPKEPFRD	YVDRFYKTLR	AEQATQEVKN	MMTETTTOM	ANPDCKQILK
O CM BOCK	- -	M.D.D. Hiviman	- modified A 100A		
O 211 3325	ROGPKEPFRD	XVDKFXKILPK	ΔΕΟΔΠΟΕΌΚΝ	MIMOTE TITLE TO NE	ANDDORFORE
O_SN_99SE_ U CD 83C	RQGPKEPFRD KOGPKEPFRD	YVDRFFKVIR	AEQATQEVKN		ANPOCKQILK
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		YVDRFFKVLR	AEQSSQEVKN AEQSSQEVKN		ANPDCKTILK
U_CD83C	KQGPKEPFRD	YVDRFFKVLR	AEQSSQEVKN	WMTDTLLIQN	ANPDCKTILK 400
U_CD83C 00BW0762_1	KQGPKEPFRD 351 ALGPGASLEE	YVDRFFKVLR MMTACQGVGG	AEQSSQEVKN PSHKARVLAE	WMTDTLLIQN AMSQANN	ANPDCKTILK 400TNIMLQK
U_CD83C 00BW0762_1 00BW0768_2	KQGPKEPFRD 351 ALGPGASLEE ALGPGATLEE	YVDRFFKVLR MMTACQGVGG MMTACQGVGG	AEQSSQEVKN PSHKARVLAE PSHKARVLAE	WMTDTLLIQN AMSQANN AMSQHN	ANPDCKTILK 400TNIMLQKTSIMMQK
U_CD83C 00BW0762_1 00BW0768_2 00BW0874_2	KQGPKEPFRD 351 ALGPGASLEE ALGPGATLEE GLGPGASLEE	YVDRFFKVLR MMTACQGVGG MMTACQGVGG MMTACQGVGG	AEQSSQEVKN PSHKARVLAE PSHKARVLAE PSHKARVLAE	WMTDTLLIQN AMSQANN AMSQHN AMSQSN	400TNIMLQKTSIMMQKS.IMMQR
U_CD83C 00BW0762_1 00BW0768_2 00BW0874_2 00BW1471_2	XQGPKEPFRD 351 ALGPGASLEE ALGPGATLEE GLGPGASLEE ALGPGATLEE	YVDRFFKVLR MMTACQGVGG MMTACQGVGG MMTACQGVGG MMTACQGVGG	AEQSSQEVKN PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE	AMSQANN AMSQHN AMSQSN AMSQSN	400TNIMLQKTSIMMQKS.IMMQRTNVMMQK
U_CD83C 00BW0762_1 00BW0768_2 00BW0874_2 00BW1471_2 00BW1616_2	XQGPKEPFRD 351 ALGPGASLEE ALGPGATLEE GLGPGASLEE ALGPGATLEE ALGPGATLEE	YVDRFFKVLR MMTACQGVGG MMTACQGVGG MMTACQGVGG MMTACQGVGG MMTACQGVGG	AEQSSQEVKN PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE	AMSQANN AMSQHN AMSQSN AMSQANN AMSQANN	400TNIMLQKTSIMMQKS.IMMQRTNVMMQKTNVMMQK
U_CD83C 00BW0762_1 00BW0768_2 00BW0874_2 00BW1471_2 00BW1616_2 00BW1686_8	XQGPKEPFRD 351 ALGPGASLEE ALGPGATLEE GLGPGASLEE ALGPGATLEE ALGPGATLEE ALGPGATLEE	YVDRFFKVLR MMTACQGVGG MMTACQGVGG MMTACQGVGG MMTACQGVGG MMTACQGVGG MMTACQGVGG	AEQSSQEVKN PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE	AMSQANN AMSQHN AMSQSN AMSQANN AMSQANN AMSQAGN	400TNIMLQKTSIMMQKS.IMMQRTNVMMQKATIMMQKATIMMQK
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U_CD83C 00BW0762_1 00BW0768_2 00BW0874_2 00BW1471_2 00BW1616_2 00BW1686_8 00BW1759_3 00BW1773_2	XQGPKEPFRD 351 ALGPGASLEE ALGPGASLEE ALGPGATLEE ALGPGATLEE ALGPGATLEE ALGPGATLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE	YVDRFFKVLR MMTACQGVGG MMTACQGVGG MMTACQGVGG MMTACQGVGG MMTACQGVGG MMTACQGVGG MMTACQGVGG MMTACQGVGG	AEQSSQEVKN PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE	AMSQANN AMSQHN AMSQHN AMSQANN AMSQANN AMSQANS AMSQANS	ANPDCKTILK 400TNIMLQKTSIMMQKS.IMMQRTNVMMQKATIMMQKATIMMQKPNILMQRANILMQR
U_CD83C 00BW0762_1 00BW0768_2 00BW0874_2 00BW1471_2 00BW1616_2 00BW1686_8 00BW1759_3 00BW1773_2 00BW1783_5	ALGPGASLEE ALGPGASLEE ALGPGATLEE GLGPGATLEE ALGPGATLEE ALGPGATLEE ALGPGATLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPAASLEE ALGQGASLEE	YVDRFFKVLR MMTACQGVGG	PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PGHKARVLAE PGHKARVLAE	AMSQANN AMSQHN AMSQSN AMSQANN AMSQAGN AMSQAGN AMSQANS AMSQANT AMSQANT AMSQANT AMSQANT AMSQANT AMSQANT	ANPDCKTILK 400TNIMLQKTSIMMQKS.IMMQRTNVMMQKATIMMQKATIMMQKPNILMQRANILMQRTNIMMQR
U_CD83C 00BW0762_1 00BW0768_2 00BW0874_2 00BW1471_2 00BW1616_2 00BW1686_8 00BW1759_3 00BW1773_2 00BW1783_5 00BW1795_6	ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGATLEE ALGPGATLEE ALGPGATLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPAASLEE ALGQGASLEE ALGSGASLEE	YVDRFFKVLR MMTACQGVGG	PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PGHKARVLAE PGHKARVLAE PSHKARVLAE	AMSQANN AMSQHN AMSQSN AMSQANN AMSQANN AMSQAGN AMSQAGN AMSQANS AMSQANT AMSQANT AMSQVGN AMSQVGN	ANPDCKTILK 400TNIMLQKTSIMMQKS.IMMQRS.IMMQRTNVMMQKATIMMQKPNILMQRANILMQRTNIMMQKPQVMMQRPQVMMQR
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U_CD83C 00BW0762_1 00BW0768_2 00BW1471_2 00BW1616_2 00BW1686_8 00BW1759_3 00BW1773_2 00BW1783_5 00BW1795_6 00BW1811_3 00BW1859_5	ALGPGASLEE ALGPGASLEE ALGPGATLEE ALGPGATLEE ALGPGATLEE ALGPGATLEE ALGPGASLEE ALGPGASLEE ALGPAASLEE ALGPAASLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGATLEE ALGPGATLEE ALGPGATLEE	YVDRFFKVLR MMTACQGVGG	PSHKARVLAE	AMSQANN AMSQANN AMSQANN AMSQANN AMSQAGN AMSQANS AMSQANT AMSQANT AMSQANT AMSQANN	ANPDCKTILK 400TNIMLQKTSIMMQKS.IMMQRTNVMMQKATIMMQKPNILMQRANILMQRTNIMMQKPQVMMQRVQIMMQKVQIMMQRMQIMMQR ANIMOR
U_CD83C 00BW0762_1 00BW0768_2 00BW0874_2 00BW1471_2 00BW1616_2 00BW1686_8 00BW1759_3 00BW1773_2 00BW1783_5 00BW1795_6 00BW1811_3 00BW1859_5 00BW1880_2	ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGATLEE ALGPGATLEE ALGPGATLEE ALGPGASLEE	MMTACQGVGG	PSHKARVLAE	WMTDTLLIQN AMSQANN AMSQHN AMSQSN AMSQANN AMSQANN AMSQANS AMSQANS AMSQANT AMSQANT AMSQANN AMSQANN AMSQANN AMSQANN AMSQANN	ANPDCKTILK 400TNIMLQKTSIMMQKS.IMMQRTNVMMQKATIMMQKATIMMQKPNILMQRANILMQRTNIMMQKPQVMMQRTNIMMQKPQVMMQRVQIMMQKMQIMMQRMQIMMQRANIMMQRANIMMQRANIMMQRTSIMMOK
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U_CD83C 00BW0762_1 00BW0768_2 00BW0874_2 00BW1471_2 00BW1616_2 00BW1759_3 00BW1773_2 00BW1783_5 00BW1795_6 00BW1811_3 00BW1859_5 00BW1880_2 00BW1921_1 00BW2036_1	ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGATLEE ALGPGATLEE ALGPGATLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGATLEE ALGPGATLEE ALGPGATLEE ALGPGATLEE ALGPGATLEE ALGPGATLEE ALGPGATLEE ALGPGATLEE ALGPGATLEE	YVDRFFKVLR MMTACQGVGG	PSHKARVLAE	AMSQANN AMSQANN AMSQANN AMSQANN AMSQANN AMSQAGN AMSQANS AMSQANT AMSQANT AMSQANT AMSQANN AMSQANN AMSQANN AMSQANN AMSQANN AMSQANN AMSQANN	ANPDCKTILK 400TNIMLQKTSIMMQKS.IMMQRS.IMMQRTNVMMQKATIMMQKATIMMQKPNILMQRANILMQRTNIMMQKPQVMMQRVQIMMQRVQIMMQRMQIMMQRMQIMMQRMQIMMQRTSIMMQKTSIMMQKTNIMMQKTNIMMQK
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U_CD83C 00BW0762_1 00BW0768_2 00BW0874_2 00BW1471_2 00BW1616_2 00BW1759_3 00BW1773_2 00BW1783_5 00BW1795_6 00BW1811_3 00BW1859_5 00BW1880_2 00BW1921_1 00BW2036_1 00BW2036_1 00BW2087_2 00BW2127_2 00BW2128_3	ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGATLEE ALGPGATLEE ALGPGATLEE ALGPGATLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGATLEE	MMTACQGVGG	PSHKARVLAE	WMTDTLLIQN AMSQANN AMSQHN AMSQSN AMSQANN AMSQANN AMSQANS AMSQANT AMSQANT AMSQANT AMSQANN	ANPDCKTILK 400TNIMLQKTSIMMQKS.IMMQRTNVMMQKATIMMQKATIMMQKPNILMQRANILMQRTNIMMQKPQVMMQRVQIMMQKMQIMMQRVQIMMQKMQIMMQRTSIMMQKTSIMMQKTNIMMQKTNIMMQKTNIMMQRTNIMMQRTNIMMQRTNIMMQRTNIMMQRTNIMMQR
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U_CD83C 00BW0762_1 00BW0768_2 00BW1471_2 00BW1616_2 00BW1686_8 00BW1759_3 00BW1773_2 00BW1795_6 00BW1795_6 00BW1811_3 00BW1859_5 00BW1880_2 00BW1921_1 00BW2036_1 00BW2087_2 00BW2087_2 00BW2127_2 00BW2128_3 00BW2276_7 00BW3819_3 00BW3842_8 00BW3871_3	351 ALGPGASLEE ALGPGASLEE ALGPGATLEE GLGPGASLEE ALGPGATLEE ALGPGATLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGATLEE	MMTACQGVGG	PSHKARVLAE PGHKARVLAE PGHKARVLAE PGHKARVLAE PGHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE	AMSQANN AMSQANN AMSQANN AMSQANN AMSQANN AMSQANS AMSQANS AMSQANT AMSQANT AMSQANN	ANPDCKTILK 400TNIMLQKTSIMMQKS.IMMQRTNVMMQKATIMMQKATIMMQKANILMQRANILMQRTNIMMQKPQVMMQRVQIMMQKMQIMMQRANIMMQRTSIMMQKTSIMMQKTNIMMQRTNIMMQRTNIMMQRTNIMQRTNIMQRTNIMQRTNIMQRTNIMQRTNIMQRTNIMQRTNIMQRTNIMQRTNIMQRTNIMQRTNIMMQRTNIMMQRTNIMMQRTNIMMQRTNIMMQRTNIMMQRTNIMMQRTNIMMQRTNIMMQR
U_CD83C 00BW0762_1 00BW0768_2 00BW1471_2 00BW1616_2 00BW1686_8 00BW1759_3 00BW1773_2 00BW1773_2 00BW1795_6 00BW1811_3 00BW1859_5 00BW1880_2 00BW1921_1 00BW2036_1 00BW2087_2 00BW2087_2 00BW2127_2 00BW2128_3 00BW2276_7 00BW3819_3 00BW3842_8	351 ALGPGASLEE ALGPGATLEE GLGPGASLEE ALGPGATLEE ALGPGATLEE ALGPGATLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGATLEE	MMTACQGVGG	PSHKARVLAE PGHKARVLAE PGHKARVLAE PGHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PGHKARVLAE	WMTDTLLIQN AMSQANN AMSQHN AMSQANN AMSQANN AMSQANS AMSQANS AMSQANT AMSQANT AMSQANT AMSQANN	ANPDCKTILK 400TNIMLQKTSIMMQKS.IMMQRTNVMMQKATIMMQKATIMMQKPNILMQRANILMQRTNIMMQKPQVMMQRVQIMMQKMQIMMQRANIMMQRTSIMMQKTSIMMQKTSIMMQKTNIMMQRTNIMMQRTNIMQR
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U_CD83C 00BW0762_1 00BW0768_2 00BW1874_2 00BW1616_2 00BW1686_8 00BW1759_3 00BW1773_2 00BW1783_5 00BW1795_6 00BW1811_3 00BW1859_5 00BW1880_2 00BW1921_1 00BW2036_1 00BW2087_2 00BW2087_2 00BW2127_2 00BW2127_2 00BW2128_3 00BW2276_7 00BW3819_3 00BW3871_3 00BW3871_3 00BW3876_9 00BW3886_8 00BW3891_6	ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGATLEE ALGPGATLEE ALGPGATLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGATLEE	MMTACQGVGG	PSHKARVLAE PGHKARVLAE PGHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PGHKARVLAE PGHKARVLAE	AMSQANN AMSQAGS AMSQANN AMSQAGS AMSQANN	ANPDCKTILK 400TNIMLQKTSIMMQKS.IMMQRTNVMMQKATIMMQKPNILMQRANILMQRTNIMMQKPQVMMQRVQIMMQKMQIMMQRVQIMMQKMQIMMQRTNIMMQRTNIMMQRTNIMMQRTNIMQR
U_CD83C 00BW0762_1 00BW0768_2 00BW0874_2 00BW1471_2 00BW1616_2 00BW1759_3 00BW1773_2 00BW1773_2 00BW1795_6 00BW1811_3 00BW1859_5 00BW1880_2 00BW1921_1 00BW2036_1 00BW2087_2 00BW2087_2 00BW2127_2 00BW2127_2 00BW2128_3 00BW2276_7 00BW3819_3 00BW3871_3 00BW3876_9 00BW3886_8	351 ALGPGASLEE ALGPGATLEE GLGPGASLEE ALGPGATLEE ALGPGATLEE ALGPGATLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGASLEE ALGPGATLEE	MMTACQGVGG	PSHKARVLAE PGHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PSHKARVLAE PGHKARVLAE PGHKARVLAE PGHKARVLAE PGHKARVLAE PGHKARVLAE PGHKARVLAE PGHKARVLAE	AMSQANN AMSQANN AMSQANN AMSQANN AMSQANS AMSQANN	ANPDCKTILK 400TNIMLQKTSIMMQKS.IMMQRTNVMMQKATIMMQKPNILMQRANILMQRTNIMMQKPQVMMQRVQIMMQKMQIMMQRVQIMMQKMQIMMQRTNIMMQRTNIMMQRTNIMMQRTNIMQR

00BW5031_1	ALGPGATLE	S MMTACOGVICO	. Dauraniera		
96BW01B21	ALGPGASTE	MMTACQGVGC	POHKARVLAI	E AMSQANN	INIMMQR
96BW0407	ALGPGASLE	S MATTACOGVACO	POHKARVLAI	MSQANS	MNIMMQR
96BW0502	ALGPGATLE	MTACQGVGG	POHKARVLG	AMSQA.N	
96BW06 J4	ALGPGATLE	MMTACQGVGG	POHNARVLAI	AMSQANS	· · · · · · · · · · · · · · · · · · ·
96BW11 06	TLGPGASLE	MMTACQGVGG	POHKARVLA	AMSQANS	
96BW1210	ALGPGASTER	MMTACQGVGG	POHKARILA	S AMSQANN	
96BW15B03	ALGPGATTER	MMTACQGVGG	PSHKARVLA	AMSHAGN	
96BW16 26	ASGPGAST.FE	MMTACQGVGG	PGHKARVLA	E AMSQATS	
96BW17A09	ALGDGATT.FE	MMTACQGVGG	PGHKARVLAE	AMSQANN	
96BWM01 5	AT GPGAST FE	MMTACQGVGG	PSHKARVLAE	AMSHANN	
96BWM03 2	AT GDGATT.EE	MMTACQGVGG	PSHKARVLAE	AMSQANN	
98BWMC12 2	ALGPGATT.EE	MMTACQGVGG	PGHKARVLAE	E AMSQAN	TNIMMQR
98BWMC13 4	AT.GDGAST.FE	MMTACOGVGG	PSHKARVLAR	AMSHTN	S.IMMQR
98BWMC14 a	SLGTGATLEE	MMTACQGVGG	PGHKARVLAE	AMSQANN	S.IMMQR INIMMQK
98BWM014 1	ALGPGATLEE		PSHKARVLAE	AMSQAN	
98BWM018 d	ALGPGASLEE		PSHKARVLAE	AMSQANS	
98BWM036 a	ALGPGATLEE		PSHKARVLAE	AMSQAGN	
98BWM037 d	ALGPGASLEE		PGHKARVLAE	AMSQANN	ANIMMQR
99BW3932 1	ALGPGATLEE	MMTACQGVGG	PGHKARVLAE	AMSQAN	SNIMMQR
99BW4642 4	ALGPGATLEE	MMTACQGVGG	PSHKARVLAE	AMSQANN	ASVMMQR
99BW4745 8			PGHKARVLAE	AMGQVNs	TNIMMQR
99BW4754 7	ALCDCACT DD	THE TACES AGG	PSHKARVIJAR	AMSQTN	SNIMMQR
99BWMC16 8	ALCOCACTER	MMTACQGVGG	PSHKARVLAE	NIMAQEMA	PNIMMOK
A2 CD 97CD	ALGPGASIEE		PSHKARVSAE	~	ANIMMQK
A2_CY_94CY	ALGPGATLEE		PGHKARVLAE	AMSOVONT	NIMIQR
A2_C1_94C1 A2D 97KR	ALGPGASLEE	MMTACQGVGG	PSHKARVLAE	MOINTOOMY	
A2G_CD 97C	ALGPGASLEE	MMTACQGVGG	PSHKARVLAE	ZMCOVONTUNT	CATTAROLOTE
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A_KE_Q23_A	THOUTHY	THE PACE A C.C.	PGHKAXVXAR	ΣΜΩΩΤΩΛΙ Σ	73173040
A_KE_Q23_A A SE SE659		DDADOMINI	PUHKARVIJAR	$NMC \cap VOIT$	FF37F3000
A_SE_SE639 A SE SE725					
A_SE_SE753		• • • • • • • • • •			
A_SE_SE/53 A_SE_SE853	THOROPTHEE	MINIACOGVEG	PGHKARVIAR	AMCOUCE	DITTION
A_SE_SE889	• • • • • • • • •				
A_SE_SE669 A SE UGSE8	• • • • • • • • • •				
A_SE_UGSE8 A UG 92UG0	GEGLINOROLD	MMIACOGAGG	PSHKARVLAR	AMSOAGO	TINT T NAME OF THE
A_UG_U455	* TOMETHEE	MITACOGAGG	PGHKARVLAR	AMSOVOH	TENTERNACE
AC_IN 2130	THO: CATHE	MITACOGVEG	PGHKARVIAR	MCOMO	G T10.00
AC_IN_2130 AC_RW_92RW	GEORGE OF THE PARTY	MITACOGVEG	PSHKARVT.AG	7\MC\∩m\τ	37077
AC_RW_92RW AC SE SE94	THOI CHUILE	MITACOGVEG	PGHKARVTAR	ΔΜΦΟΝΛΟ	DITTION
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		ルルルエいてついことには	PUHKARVIJAR	$NMC \cap NM$	TATES TAGAS
ACG_BE_VI1 AD_SE_SE69					
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AG_BE_VI11		DD V DO CATERIA	POHKARVIAR	ΔΜΟΛΛΙΠΑ	OON N T10.00
AG_BE_VIII		11 1 12 COG 1 CG	PGHKARVLAR	AMCOTA	OFFITTION
		DOVDURA	PSHKARVIAR	אמטאמ א	MO33 T104
AGHU_GA_VI		1711 TACOG ACC	P(+HKADVI.AD	λ MCO ∩ trinit	
AGU_CD_Z32		THITTACOG AGG	PSHKARVIJAR	ΔΜ ሮΛλα α	TT 7 7 7 7 10 40 40
AJ_BW_BW21		MITACQGVG.	PGHKAKILAE	ΔΜ <u>ς</u> Λι/ΩΜΔ	MITTIMA
B_AU_VH_AF	THU THE PARTY OF T	MITACOGVOG	PGHKARVIAR	ΔΜΟΟνπ · ·	3703 7734340
B_CN_RL42_	THOTAXIDES	MATACOGAGG	PSHKARTLAR	$\Delta MC \cap trunto x x$	MATCH MITTERS
B_DE_D31_U	THOTAKITED	MITACOGVGG	PGHKARVIJAR	ΣΜC∩ tmn	31C3 CT 75 CA
B_DE_HAN_U	* THO T ENGINEER	I'II'I LACOGVGG	PC-HKADVI.AT	A MC Atm	~~~~~~
B_FR_HXB2_		MATACOGAGG	PGHKARVIAR	ΔΜΟΛυπ	370 B MT1010
B_GA_OYI		MITACOGVEG	PISHKARVIJAR	DMCOTAT	CTT
B_GB_CAM1_					
B_GB_GB8_A B_GB_MANC					
B_GB_MANC_	ALGPAATLEE	MMTACQGVGG	PSHKARILAE	AMSOVT	NSATIMON

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B KR WK AF	7.7. (TD() (T) ===				
	ALGPGATLEE	MMTACQGVGG	PSHKARVLAE	AMSQAT	.NSATIMMOR
B_NL_3202A	ALGPGATLER	MMTACQGVGG	PGHKARVI.AR	MCOVID	MODELLAND
B_TW_TWCYS	ALGPAATLEE	MMTACOGVGG	PSHKARVI.AR	MCDUD	MOUNTANA
B_US_BC_LO	ALGPGATLEE	MMTACQGVGG	PGHKARVT.AR	MCOUT	MCAMTAMOR
B_US_DH123	ALGPGATLEE	MMTACOGVGG	PGHKARVI.AR	AMCOTON	MONMYNMOG
B_US_JRCSF	ALGPAATLEE	MMTACQGVGG	PGHKARVI.AR	AMCOUR	.NPATIMMOR
B_US_MNCG_	ALGPAATLEE	MMTACQGVGG	PGHKARVT. AF	AMCOUT	.NSATIMMOR
B_US_P896_	ALGPGATLEE	MMTACOGVGG	PGHKARVI.AF	AMCOUM	MONOTAGE
B_US_RF_M1	ALGPAATLEE	MMTACOGVGG	PSHKARTT.AR	AMCOM	.NSATIMMOR
B_US_SF2_K	ALGPAATLEE	MMTACQGVGG	PGHKADVI.AE	MCOMM	.NSATIMLQK
B US WEAU1	ALGPGATLED	MMTACQGVGG	DCHKADITAE	AMGOVIII	. NPANIMMOR
B_US_WR27	ALGPGATLEE	MMTACQGVGG	DCHKYDIKATE		
B US YU2 M	ALGPAATIER	MMTACOGVGG	POLICARVARE	AMSQVT	.GSNAIMMQK
BF1 BR 93B	ALGPAATLER	MMTACQGVGG	PGHKARVLAE	AMSQVT	.NSATIMMQR
C BR 92BR0	ALGDGAST.FF	MMTACQGVGG	PGHKARVLAE	AMSQVT	.NSGTIMMQR
C BW 96BW0	ALCDCACT DE	MMTACQGVGG	PGHKARVLAE	AMSKVNN	\dots TNIMMQR
C BW 96BW1	ALCDCACT DE	MMTACQGVGG	PSHKARVLAE	AMSQT.N	\dots TNVMMQR
C_BW_96BW1	THOSE GROUPE	MMIACQGVGG	PSHKARILAE	AMSOANN	CATTMACATE
C_BW_96BW1	THO FOR SUED	MMITACOGVGG	PSHKARVIJAR	$\Delta MCU \lambda CM$	ACTICION
	MIGEGATTER	MMTACOGVGG	PGHKARVI.AE	አ ጠፍለአጥሮ	ARTT MOD
C_ET_ETH22	WING E GWO TIET	MMIACOGVGG	ΡΑΗΚΔΡΙΜ.ΔΕ	A MCCATATAT	MM T > 4 > 4 = 4
C_IN_93IN1	THOI GAD HEE	MINIACOGAGG	PGHKARVLAR	ΔΜ ΩΩΔΝΙ	CONTINO
C_IN_93IN9	Self CVO 10TH	MMTACOG AGG	PSHKARVLAR	ϪϺ⊴∩Ͳϒ	CATTMATE
C_IN_93IN9	THOU GHOTTE	MITACOGVGG	PGHKARVT.AR	ΣΜ ΩΩλλί	CATTTAGE
C_IN_94IN1	THOLOWOTTE	MMIACOGACG	PSHKAKVIAR	Δ MSOTN	AVMITAGE
C_IN_95IN2	AUGE GROUPE	MMIACOGVGG	PSHKARVTAR	$\Delta MC \cap TMT$	SAILMQR
CRF01_AE_C	ALGTGATLEE	MMTACOGVGG	PGHKARVIAE	AMGOUO	
CRF01_AE_C	ALGTGATLEE	MMTACQGVGG	PCHKARVIAR	λωςουπι Δυσάνουπι	HANIMMQR
CRF01 AE C	ALGTGATLEE	MMTACQGVGG	DCHKADVI.AE		. HTNIMMQK
CRF01_AE_T	SLGTGATLEE	MMTACQGVGG	DOMNADATA	AMSUVQ	HANIMMQR
CRF01 AE T	ALGTGATLEE	MMTACQGVGG	POINTALATE	AMSHAQ	HANIMMQR
CRF01 AE T	ALGTGATLEE	MMTACQGVGG	POULARVLAR	AMSQAQ	HANIMMQR
CRF01 AE T	ALGTGATLER	MMTACQGVGG	POINARVLAE	AMSQAQ	HANIMMQR
CRF01 AE T	AT GTGATT. EE	MMTACQGVGG	PSHKARVLAE	AMSHAQ	QANIMMQR
CRF01_AE_T	AT.GTGATT.EE	MMTACQGVGG	PSHKARVLAE	AMSHAQ	HATIMMQR
CRF02 AG F	ALCICATIES	MMTACQGVGG	PSHKARVLAE	AMSHVQ	QANIMMQR
CRF02_AG_F	ALCOCACIDE	MMTACQGVGG	PGHKARVLAE	AMSQVQ	QSNIMMQR
CRF02_AG_F	ALGEGASIAE	MMTACQGVGG	PGHKARVLAE	AMSQVQ	QSNIMMQR
	ALGPGATLEE	MMTACQGVGG	PGHKARVLAE	AMSQVQSP	37773600
CRF02_AG_N	ALGTGATLEE	MMTACQGVGG	PGHKARVLAE	AMSQVQ	0335555
CRF02_AG_S	ALGPGATLEE	MMTACOGVGG	PSHKADUT.AU	AMCOTTO	073777
CRF02_AG_S	THUTCH	MINDACOGVEG	PGHKARVTAR	$\Delta MC \cap \lambda \cap$	CONTRACTO
CRF03_AB_R	THINDCOUR	MATACOGACEC	PUHKADUTAD	7 MCCCY/CNT	3 37 23 44 44 44
CRF03_AB_R	WIGOGWI INF	MMTACOGVGG	PGHKARVLAE	AMSOVON	7 ATT MINIOTE
CRF04_cpx_	THUIGHTE	MITACOGAGG	PSHKARVLAR	ΔΜΩΩΔΩΝ	A A A A TRANSCE
CRF04_cpx_	MIGIGATIEE	MMTACQGVGG	PAHKARVLAE	AMSOASM	7777TMMAT
CRF04_cpx_	TOTOTALL	MMTACQGVGG	PSHKARVLAR	AMSOASS	A A A A TRANSPORT
CRF05_DF_B	WIG O O WITTE	MMTACQGVGG	PSHKARVIAR	ΔΜΩΟΣΙΝΙ	C A A CO A BANKAD
CRF05_DF_B	MOLOWINGE	MM TACOG AGG	PSHKARVT AF	አ ለደረ	CDVIDWO
CRF06_cpx_	ALGPGATLEE	MMTACOGVGG	PGHKARVI.AR	AMCOAC	TICA TIMES TO
CRF06_cpx_	ALGPGATLEE	MMTACQGVGG	PGHKARVI.AE	AMCOVCCA	.VGAIMMQ.K
CRF06_cpx_	ALGPGATLEE	MMTACQGVGG	PGHKADIJI.AE	AMCOACCO	.LTAIMMQ.K
CRF06_cpx_	ALGPGATLEE	MMTACQGVGG	DCRKYDAL YE	AMSQASGT	. VAAAIMMQK
CRF11_cpx_	ALGTGATLER	MMTACQGVGG	DCHANDALAH	AMSQVSGA	
CRF11_cpx_	ALGVGATTER	MMTACOGVOG	FOUVAKATAE	AMSQVQQ	TNVMMQR
D CD 84ZRO	ALGPGATT.FF	MMTACQGVGG	POHYAKATAE	AMSQAQH	TNIMMQR
D_CD_ELI K	ALGDODATEDE	MMTACQGVGG	POHKARVLAE	AMSQATS	.ASAAIMMQK
D_CD_NDK_M	WIGE GWITTED	MINTACOGVGG	PSHKARVI.AR	$\Delta MC \cap \lambda TDM$	COMMENSACION
D_UG 94UG1	THOP QAILINE	MMTACQGVGG	PGHKARVT AF	AMSOVITC	CAMAZAMACO
F1 BE VI85	THOUSE	MMIACOGAGG	PSHKARVLAR	AMSOATM	Λ ATTTA TAMACOD
	THOIGHTHEE	MMTACQGVGG	PSHKARVLAE	AMSOAN	CATMMON
F1_BR_93BR	THEFT	MMTACQGVGG	PSHKARVLAE	ΜΕΟΣΤΝΙ	THE TRANSPORT
F1_FI_FIN9	GHGIGATIEE	MMTACRGVGG	PGHKARILAE	AMSOAN	TITE T MINACOTE
F1_FR_MP41	WIG LOW LIFE E	MMTACQGVGG	PGHKARVLAE	AMSQATN	AAIMMQK

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F2_CM_MP25 ALGPGATLEE MMTACQGVGG PSHKARILAE AMSKATG.....AAIMMQK
  F2KU_BE_VI ALGPGASLEE MMTACQGVGG PAHKARVLAE AMSQATN....TAIMMQK
G_BE_DRCBL
G_NG_92NG0
G_SE_SE616
H_BE_VI991
H_BE_VI997
H_CF_90CF0
ALGGGATLEE
MMTACQGVGG
MMTACQGVGG
PSHKARVLAE
AMSQAS.G...AAAAIMMQK
AMSQASGA...AAAAIMMQK
AMSQASGA...AAAAIMMQK
AMSQASGA...AAAAIMMQK
AMSQASGA...AAAAIMMQK
AMSQASGA...AAAAIMMQK
AMSQVTNAS...AAAIMMQK
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AMSQVTNAN...AAIMMQK
AMSQVTNAN...AAIMMQK
AMSQVTNAN...AAIMMQK
AMSQVTNTN...TAIMMQK
 J_SE_SE702 ALGSGATLEE MMTACQGVGG PGHKARVLAE AMSQVTN....TNIMMQR
 J_SE_SE788 ALGSGATLEE MMTACQGVGG PGHKARVLAE AMSQVTN....TNIMMQR
 K_CD_EQTB1 ALGSGATLEE MMTACQGVGG PGHKARVLAE AMSQVTN....SAVMMQR
 K_CM_MP535 ALGPGASLEE MMTACQGVGG PSHKARILAE AMSQVTN....PVVMMQK
 N_CM_YBF30 ALGPGATLEE MMTACQGVGG PAHKARVLAE AMSQVQQP....TTSVFAQR
 O_CM_ANT70 SLGPGATLEE MMVACQGVGG PTHKARVLAE AMATAQQDLK GGYTAVFMQR
 O_CM_MVP51 ALGPEATLEE MMVACQGVGG PTHKAKILAE AMASAQQDLK GGYTAVFMQR
 O_SN_99SE_ SLGPGATLEE MMIACQGVGG PTHKARVLAE AMA.AAQDLK GGYTAVFMQR
 O_SN_99SE_ SLGPGATLEE MMIACQGVGG PTHKARVLAE AMS.AAQDLK GGYSAVFMQR
 U_CD__83C ALGTGATLEE MMTACQGVGG PSHKARVLAE AMSQTN.....TAIMMQR
 00BW0762_1 NNFKGPRRIV KCFNCGKEGH IARNCRAPRK KGCWKCGKEG HQMKDCT..E
 00BW0768_2 SNFKGPKRIV KCFNCGKEGH IARNCRAPRK KGCWKCGKEG HQMKDCT..E
 00BW0874_2 SNFKGHKRIV KCFNCGKEGH IAKNCRAPRK KGCWKCGKEG HQMKDCT..E
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 00BW1686_8 SNFKGSK.RV KCFNCGKEGH IARNCRAPRK RGCWKCGKEG HQMKDCT..E
 00BW1759 3 SNFKGPKRIV KCFNCGKEGH IARNCRAPRK KGCWKCGKEG HQMKDCT..E
 00BW1773_2 SNFKGPRRTV KCFNCGKEGH IAKNCRAPRK KGCWKCGKEG HQMKDCT..E
 00BW1783_5 NNLKGTRRTV KCFNCGKEGH IARNCRAPRK KGCWKCGREG HQMKDCT..E
 00BW1795_6 NNFKGPRRII KCFNCGKEGH LARNCRAPRK KGCWKCGKEG HQMKDCT..E
 00BW1811_3 SNFKGSKRSV KCFNCGKEGH IARNCRAPRK KGCWKCGKDG HQMKDCT..E
 00BW1859_5 SNFKGPRKII KCFNCGKEGH LARNCRAPRK KGCWKCGKEG HQMKDCT..E
 00BW1880_2 SNFKGPRRIV KCFNCGKEGH IAKNCRAPRK KGCWKCGKEG HQMKDCT..E
 00BW1921_1 SNFKGPRRIV KCFNCGKEGH IARNCRAPRK KGCWKCGKEG HQMKDCT..E
 00BW2036_1 GNFKGPKRII KCFNCGKEGH LARNCRAPRK KGCWKCGKEG HQMKDCT..E
 00BW2063_6 NNFKGPRRLV KCFNCGKEGH IARNCRAPRK KGCWKCGKEG HQMKDCT..E
 00BW2087_2 SNFKGSKRIV KCFNCGKEGH IAKNCRAPRK KGCWKCGREG HQMKDCT..E
00BW2127_2 GNFRGAKRSV KCFNCGKEGH IAKNCRAPRK KGCWKCGREG HQMKDCT.E
00BW2128_3 SNFKGSKRSV KCFNCGKEGH IARNCRAPRK KGCWKCGKEG HQMKDCT.E
00BW2276_7 SNFKGPRKIV KCFNCGKEGH IARNCRAPRK KGCWKCGKEG HQMKDCT.E
00BW3819_3 SNFKGSKRIV KCFNCGKEGH IARNCRAPRK KGCWKCGKEG HQMKDCTN.D
00BW3842_8 GNFKGPKRTI KCFNCGKEGH LARNCRAPKK KGCWKCGREG HQMKDCT.E
00BW3871_3 SNFKGPRRII KCFNCGKEGH LARNCRAPRK RGCWKCGKEG HQMKDCTT.E
00BW3876_9 GNFKGSKRIV KCFNCGKEGH IARNCRAPRK KGCWKCGKEG HQMKDCT..E
00BW3886_8 GNFKGAKRIV KCFNCGREGH IAKNCRAPRK KGCWKCGKEG HQMKDCT..E
00BW3891_6 SNFKGSRRIV KCFNCGKVGH IARNCRAPRK KGCWKCGKEG HQMKDCT..E
00BW3891_6
00BW3970_2
SNFKGPKRIV KCFNCGKEGH IAKNCRAPRK KGCWKCGKEG HQMKDCT.E
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96BW0407
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96BW06_J4
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96BW11_06
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  96BW1210 GNFKGPRKIP KCFNCGKEGH IARNCRAPRK KGCWKCGKEG HQMKDCS. E
96BW15B03 SNFKGPKRII KCFNCGKEGH IARNCRAPRK KGCWKCGKEG HQMKDCT. E
  96BW16_26 SNFKGPRRSV KCFNCGKEGH IARNCRAPRK KGCWKCGQEG HQMKDCT..E
  96BW17A09 GNFKGPRRTI KCFNCGKEGH LAKNCRAPRK XGCWKCGKEG HQMKECT. E
  96BWMO1_5 NNFKGPRRTI KCFNCGKEGH LARNCRAPRK KGCWKCGKEG HQMKDCT..E
  96BWMO3_2 GNFKGPKRII KCFNCGKEGH IAKNCRAPRK KGCWKCGKEG HQMKDCNN.E
98BWMC12_2 SNFKGPKRIV KCFNCGKEGH IAKNCRAPRK KGCWKCGKEG HQMKDCN..E
98BWMC13_4 SNFKGPKRII KCFNCGKEGH IARNCRAPRK KGCWKCGKEG HQMKDCT..E
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98BWMC14_a	GNFKGPRRI	I KCFNCGKEG	H IAKNCRAPR	K KGCWKCGKE	G HQMKDCTE
98BWM014_1					
98BWM018_c					
98BWM036_a					
98BWM037_6					
99BW3932_1					
99BW4642_4					
99BW4745_8					
99BW4754_7					
99BWMC16_8					
A2_CD_97CD					
A2_CY_94CY A2D 97KR					
A2G_CD_97C		- *************************************	L PAKMI, KVDD.	V V///ババン/////////	
A_BY_97BL0					
A_KE_Q23_A					
A_SE_SE659		- *************************************	DAKMURALD	V V Alitzaaren	
A_SE_SE725		· · · · · · · · · · · · ·			
A SE SE753		• • • • • • • · · · ·			
A SE SE853					
A_SE_SE889					
A_SE UGSE8					
A UG 92UG0					
A_UG_U455					
AC_IN_2130					
AC_RW 92RW					
AC SE SE94		. TOTACOICEGH	THRUCKAPH		TTO LESS
ACD_SE_SE8					
ACG BE VI1					
AD SE SE69					
AD SE SE71		TOUTOUT TOUR	I MRINIC K A DD K	V/////////////////////////////////////	TT
ADHK NO 97					
ADK CD MAL					
AG_BE_VI11	GNFRGOKT I	KCFNCGKEGH	LARNCRAPRK	KGCWKCGKEG KGCWKCGKEG	HQMKDCTE
AG_NG_92NG	NNFKGPRRGI	KCENCGKEGE	LARNCRAPRK	KGCWKCGKEG KGCWKCGKEG	HQMKDCTE
AGHU_GA_VI	GNFKGOKR.I	KCFNCGKEGH	TARNCRAPRK	KGCWKCGKEG	HQMKDCTE
AGU_CD_Z32	SNFKGPRKTI	KCFNCGKEGH	TARNCRAPRK	KGCWKCGKEG	HQMKDCTE
AJ_BW_BW21					
B_AU_VH_AF					
B_CN_RL42_					
B_DE_D31_U					
B_DE_HAN_U					
B_FR_HXB2_					
B_GA_OYI	GNFKNQRKTV				
B_GB_CAM1_					
B_GB_GB8_A					
B_GB_MANC_					
B_KR_WK_AF					
B_NL_3202A					
B_TW_TWCYS					
B_US_BC_L0					
B_US_DH123					
B_US_JRCSF					
B_US_MNCG_					
B_US_P896_					
B_US_RF_M1					
B_US_SF2_K B_US_WEAU1					
B_US_WEAU1 B_US_WR27_					
B_US_YU2_M					
B_0S_102_M BF1_BR_93B					
~~ ~_~v>>B	OMEKNÖKK.I.I	KCFNCGKEGH :	IAKNCRAPRK	KGCWKCGKEG	HOMKDCTE.

C_BR_92BR0	SNCKGPKRTI	KCFNCGKEGH	LARNCRAPRK	KGCWKCGKEG	HQVKDCTE
C_BW_96BW0	SNEKGPRRIV	KCFNCGKEGH	IARNCRAPRK	KGCWKCGKEG	HOMKDOT E
C_BW_96BW1	NNFKGPTRIV	KCFNCGKEGH	IARNCKAPRK	KGCWKCGKEG	HOMKDOT F
C_BW_96BW1	GNFKGPRKIP	KCFNCGKEGH	IARNCRAPRK	KGCWKCGKEG	HOMKDOS R
C_BW_96BW1	SNFKGPKRII	KCFNCGKEGH	IARNCRAPRK	KGCWKCGKEG	HOMKDOT F
C_ET_ETH22	SNFKGPKRAI	KCFNCGKEGH	LARNCRAPRK	KGCWKCGKEG	HOMKDOT P
C_IN_93IN1	SNFKGSKRIV	KCFNCGKEGH	IAKNCRAPRK	KGCWKCGKEG	HOMKDOT F
C_IN_33IN3	SNFKGSKRII	KCFNCGKEGH	LARNCRAPRK	KGCWKCGKEG	HOMKDOT F
C_IN_93IN9	SNFKGSKRTV	KCFNCGKEGH	IARNCRAPRK	KGCWKCGKEG	HOMKDOT R
C_IN_94IN1	SNFKGSKRII	KCFNCGKEGH	LARNCRAPRK	KGCWKCGKEG	HOMKDOT R
C_IN_95IN2	SNEKGSKRIV	KCFNCGKEGH	LARNCRAPRK	KGCWKCGKEG	HOMKDOT R
CRF01_AE_C	GNFKGQKR.I	KCFNCGKEGH	LARNCRAPRK	RGCWKCGOEG	HOMKDOTE
CRF01_AE_C	GNFKGQRK.I	KCFNCGKEGH	LARNCRAPRK	KGCWKCGREG	HOMKDOTE
CRF01_AE_C	GNFKGQKR.I	KCFNCGKEGH	LARNCRAPRK	KGCWKCGKEG	HOMKDOTE
CRF01_AE_T	GNFKGQKR.I	KCFNCGKEGH	LARNCRAPRK	KGCWKCGKEG	HOMKDOTE
CRF01_AE_T	GNFKGPRR.I	KCFNCGKEGH	LARNCRAPRK	KGCWKCGKEG	HOMKDOTE
CRF01_AE_T	GNFKGQTR.I	KCFNCGKEGH	LARNCRAPRK	KGCWKCGKEG	HOMKDOTE
CRF01_AE_T	GNFKGQKR.I	KCFNCGKEGH	LARNCRALRK	KGCWKCGKEG	HOMKDOTE
CRF01_AE_T	GNFKGQKR.I	KCFNCGREGH	LARNCRAPRK	OGCWKCGKEG	HOMKDOTE
CRF01_AE_T	GNFKGQKR.I	KCFNCGKEGH	LARNCRAPRK	KGCWKCGKEG	HOMKDOTE
CRF02_AG_F	GNFRGQRT.I	KCFNCGKEGH	LARNCKAPRK	KGCWKCGKEG	HOMKDOTE
CRF02_AG_F	GNFRGQRT.I	KCFNCGKEGH	LARNCKAPRK	KGCWKCGKEG	HOMKDOTE
CRF02_AG_G	GNFKGQK.RI	KCFNCGKEGH	LARNCRAPRK	KGCWKCGKEG	HOMKDOW P
CRF02_AG_N	GNFRGQRT.I	KCFNCGKEGH	LARNCKAPRK	RGCWKCGKEG	HOMKDOTE
CRF02_AG_S	GNFRGQRP.I	KCFNCGKEGH	LARNCKAPRK	KGCWKCGKEG	HOMKDOTE
CRF02_AG_S	GNFRGQRT.I	KCFNCGKEGH	LARNCKAPRK	RGCWKCGKEG	HOMKDOTE
CRF03_AB_R	SNFRGPKR.I	KCFNCGKEGH	LARNCRAPRK	KGCWKCGKEG	HOMKDOWE
CRF03_AB_R	SNFRGPKR.I	KCFNCGKDGH	LARNCRAPRK	KGCWKCGKEG	HOMKDONE
CRF04_cpx_	SKFKGQRRTI	KCFNCGKEGH	LARNCRAPRK	KGCWKCGKEG	HOMKDOTE
CRF04_cpx_	SNFRGQKRII	KCFNCGKEGH	LARNCRAPRK	RGRWKCGKEG	HOMKDOTE
CRF04_cpx_	SNFKGPRRSI	KCFNCGKEGH	LARNCRAPRK	KGCWKCGKEG	HOMKDOPE
CRF05_DF_B	GNFKGPRKII	KCFNCGKEGH	IAKNCRAPGK	KGCWKCGREG	HOMKDOTE
CRF05_DF_B	GNFKGPRKSI	KCFNCGKEGH	TAKNCRAPRK	RGCWKCGREG	HOMKDOTE
CRF06_cpx_	SNFKGPKRSI	KCFNCGKEGH	LARNCRAPRK	KGCWKCGKEG	HOMKDOVE
CRF06_cpx_	SNYKGPKRSI	KCFNCGREGH	LARNCRAPRK	KGCWKCGKEG	HOMKDOTE
CRF06_cpx_	SNFKGP.RKI	KCFNCGKEGH	LARNCRAPRK	KGCWKCGKEG	HOMKDOTE
CRF06_cpx_	SNFKGQRKNI	KCFNCGKEGH	TARNCRAPRK	KGCWKCGKEG	HOMKDOTE
CRF11_cpx_	SNFKGQKR.I	KCFNCGKEGH	LARNCRAPRK	KGCWKCGREG	HOMKDOTE
CRF11_cpx_	GNFKGQKR.I	KCFNCGKEGH	LARNCRAPRK	K.GCKCGKEG	HOMKDOTE
D_CD_84ZR0	SNFKGTRKIV	KCFNCGKEGH	IARNCRAPRK	KGCWKCGKEG	HOMKDOTE
D_CD_ELI_K	GNFKGPRKII	KCFNCGKEGH	IAKNCRAPRK	KGCWRCGKEG	HOLKDOTE
D_CD_NDK_M	GNFKGPRKSI	KCFNCGKEGH	TAKNCRAPRK	KGCWKCGREG	HOMKDOTE
D_UG_94UG1	GNEKGPKKII	KCFNCGKEGH	TAKNCRAPRK	KGCWKCGREG	HOMKDOTE
F1_BE_VI85	SNFKGQRRVV	KCFNCGKEGH	IARNCRAPRK	KGCWKCGREG	HOMKDOT E
F1_BR_93BR	SNEKGÖKKIA	KCFNCGKEGH	IAKNCRAPRK	KGCWKCGREG	HOMKDOT R
F1_FI_FIN9	SNERGORRIV	KCFNCGKEGH	IARNCRAPRK	KGCWKCGOEG	HOMKDOT E
F1_FR_MP41	SNYKGPRRFI	KCFNCGKEGH	IAKNCRAPRK	KGCWKCGKEG	HOMKDOT E
F2_CM_MP25	SNFKGQRRIV	KCFNCGKEGH	IARNCRAPRK	RGCWKCGOEG	HOMKDOT E
F2KU_BE_VI	GNFKGPRRDV	KCFNCGKEGH	IAKNCRAPRK	KGCWKCGKEG	HOMKDOT E
G_BE_DRCBL	SNFKGPRRTI	KCFNCGKEGH	LARNCRAPRK	KGCWKCGKEG	HOMKECTE
G_NG_92NG0	SNFKGPRRII	KCFNCGKEGH	LARNCRAPRK	KGCWKCGKEG	HOMKECTE
G_SE_SE616	SNEKGPRRTI	KCFNCGKEGH	LARNCRAPRK	KGCWKCGKEG	HOMKDOTE
H_BE_VI991	GNFKGPRRTV	KCSNCGKEGH	IARNCRAPRK	KGCWKCGOEG	HOMEDOT G
H_BE_VI997	SNEKGPRKIV	KCFNCGKEGH	IARNCRAPRK	KGCWKCGREG	HOMKDOT E
H_CF_90CF0	GNFKGQRKFV	KCFNCGKEGH	IARNCRAPRK	KGCWKCGREG	HOMKDOT R
J_SE_SE702	GNFRDHKRIV	KCFNCGKQGH	IAKNCRAPRK	KGCWKCGKEG	HOMKDCT E
J_SE_SE788	GNFRDHKRIV	KCFNCGKQGH	IAKNCRAPRK	KGCWKCGKEG	HOMKDOT E
K_CD_EQTB1	GNFKGQRRII	KCFNCGKEGH	LARNCRAPRK	KGCWKCGKEG	HOMKDOS E
K_CM_MP535	GNFKGHRKIV	KCFNCGKEGH	IARNCRAPRK	KGCWKCGKEG	HOMKDOT. E
N_CM_YBF30	GNEKGIRKPI	KCFNCGKEGH	LARNCKAPRR	GGCWKCGOEG	HOMKDCKNEG
O_CM_ANT70	GQNPIRKGTI	KCFNCGKEGH	IARNCRAPRK	KGCWKCGQEG	HQMKDCRN.G
				· -	

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O_CM_MVP51	GQNPNRKGPI	KCFNCGKEGH	IAKNCRAPRK	RGCWKCGORG	HOMEDOEDE O
O_SN_99SE_	GÖNDSKYGDI	KCFNCGKEGH	LARNCRADDK	KCCWKCCORC	TIOMETOTOT O
O_SN_99SE_	GÖMEGKVGET	RCFNCGKEGH	LARNCRAPRK	KGCWKCGORG	HOMEDODIE O
U_CD83C	GNFKGPRRIV	KCFNCGKEGH	IAKNCRAPRK	KGCWKCGREG	HOMKDOT R
					QDCIIJ
	451				500
00BW0762_1	RQANFLGKIW	PSHKG.RPGN	FLQSR	PEP	TAPPAESFK.
00BW0768_2	RQANFLGKIW	PSHKG.RPGN	FLQNRPEP		ΤΑΡΡΑΡΩΡΥ
00BW0874_2	RQANFLGKIW	PSHKG.RPGN	FLONRPEPSA	PPARSI.PDED	SAPPAESLR.
00BW1471_2 00BW1616 2	KOWNETCKIM	PSQKG.RPGN	FLONRPEP		CADDARCED
00BW1616_2 00BW1686 8	ROANTELGKIW	PSHKG.RPGN	FLOSRPEPTA	מזומג מק	TADDARCED
00BW1759 3	KOWNETCKIM	PSHKG.RPGN	FLONRPEP.		SYDDYECER
00BW1759_3 00BW1773 2	ROANTICKIW	PSHKG.RPGN	FLQ	SRPEP	TAPPLESFK.
00BW1773_2	ECAME CETA	PSHKG.RPGN	FLQSRPE	P	TAPPAESFR.
00BW1785_5	DOMETOR TW	PSQKGGRPGN	FLQNRPA	ESRLEP	TAPPAESFR.
00BW1811 3	RODNET GRIM	PSHKG. RPGN	FLQNRPE	P	TAPPAESFR.
00BW1859 5	RQANFLGKIW	PSHKG PROM	FLONRPEPTA	PLEP	
00BW1880 2			FLOOR	• • • • • • • • • • • • • • • • • • • •	TAPPAESFR.
00BW1921 1	RQANFLGKIW	PSHKG PDCM	FLQSR FLQSRPEP	····PEP	
00BW2036_1	RQANFLGKIW		FIOMDUADOM		TAPPAESFR.
00BW2063_6	RQANFLGKIW		FLQNRTAPPV FLQSRLE	EP	TAPPAESFR.
00BW2087 2	RQANFLGKIW		FLQSRPEPTA	D DATE	TAPPAESF
00BW2127 2	RQANFLGKIW		FLQNRPEPTA	PPAEP	TAPPAESFR.
00BW2128_3	RQANFLGRIW		FLQNRPEPTA	משחמו שארם	
00BW2276_7	RQANFLGKLW		FLONRTEPTA	D IUD	TAPPAESFR. TAPPADSFK.
00BW3819_3	RQANFLGKIW	PSHKG . RPGN	FLQNRPE	ם אדע D	TAPPAESFR.
00BW3842_8	RQANFLGKIW	PSRGG.RPGN	FLQNRTEPTA	P. DED	TAPPAESFR.
00BW3871 <u>3</u>	RQANFLGKIW	PSHKG.RPGN	FLQNRPEP		TAPPAESFR.
00BW3876_9	RQANFLGKIW	PSHKG.RPGN	FLQNRPE		TAPPAESFR.
00BW3886 <u></u> 8	RQANFLGKIW	PSHKG.RPGN	FLQNRPEPTA	PPARP	TAPPAESFR.
00BW3891 <u></u> 6	RQANFLGRIW	PSHKG.RPGN	FLQSRPE	P	TAPPAESFR.
00BW3970_2	RQANFLGRFW	PSQKG.RPGN	FLQ	SRSEP	TAPPAESFR.
00BW5031_1	RQANFLGKIW	PSNKG.RPGN	FLQSRPEPTA	PPMP	TAPPAESFR.
96BW01B21	RQANFLGKIW	PSHKG.RPGN	FLONR	LED	SAPPAESFR.
96BW0407	RQANFLGKIW	PSHKG.RPGN	FLO	SPDPD	TAPPAESFR.
96BW0502	ROANFLGKIW	PSHKG.RPGN	FLQNRSEPA.	APTVP	TAPPAESFR.
96BW06_J4	RQANFLGKIW		FLQSRPEP		ΨΑΡΡΑΡΩΡΡ
96BW11_06	RQANFLGKIW	PSHKG.RPGN	FLQSRPE	p	TAPPAESL
96BW1210 96BW15B03	GOWNETGKIM	PSHKG.RPGN	FLOSR	OPD	SAPPAESFR.
96BW15BU3	ROADELGKIW	PSHKG.RPGN	FLQNRTEP		אום אם אם אום אים
96BW17A09	ROADFLGKIW	PSHKG.RPGN	FLQSRPE	P	TAPPAESFR.
96BWMO1 5	WOUTHER	POHNGGRPGN	FLONRPEP.		ממספו עמות עייי
96BWM01_3	DOYMET GETM	PSHKG.RPGN	FLQSRPE	P	TAPPAEIL
98BWMC12 2	DOWNET GRIM	PSHKG.RPGN	FLQSRPEP	• • • • • • • • • •	TAPPAERFR.
98BWMC13 4	KONNETGKIW	DCHYC DDOX	FPQNR	·····VEP	TAPPAESLR.
98BWMC14_a	ROANFLOKIW	DEUKC DOOM	FLOSRPE		TAPPAESL
98BWM014 1	ROANFLOKTW	PSHKGGPPGM	FLOSRPEP	• • • • • • • • • •	SAPPAESFR.
98BWM018_d	ROANFLOKTW	DSHKG DDGM	FLQRRPEP FIQNRPAPT.	• • • • • • • • • • • • • • • • • • • •	TAPPAESFR.
98BWM036_a	ROANFLGRIW	PSHKG RPGN	FLQSRPEPTA	APPVEP	TAPPAESFR.
98BWM037_d	ROANFLGKIW	PSHKG RPGN	FLQ	PPAEP	TAPPAESFR.
99BW3932 1	ROVNFLGKIW	PSNKG RPGN	FLONRTVPTA	DDAHGHDINA	TAPPAESFR.
99BW4642_4	ROANFLGKIW	PSHKG . RPGN	FFQNRTEP	PPAESFRIEP	TAPPAESFR.
99BW4745_8	RQANFLGKIW	PSNKG . RPGN	FLQNRPEPTA	· · · · · · · · · · · · · · · · · · ·	TAPPAESFR.
99BW4754_7	RQANFLGKIW	PSNKG RPGN	FLQSR	······LEP	TAPPAESFR.
99BWMC16_8	RQANFLGKIW	PSNKG.RPGN	FLQNRPEPT.	יים זמו א	TAPPAESFK.
A2_CD_97CD	RQANFLGKIW	PSNKG.RPGN	FPQSRTE	WETER	TAPPAESFR.
A2_CY_94CY	ROWNELGKIM	PSNKG.RPGN	FPQSRTE	D	מ זואים אסס איז
A2D97KR	ROWNLICKIM	PSHSG.RPGN	FPOSRTE		באם מעמעת עם
A2G_CD_97C	• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		· · · · · · · · · · · · · · · · · · ·	LAPPAEUFG.
			·	· · · · · · · · · · · · · · · · ·	• • • • • • • • • •

A_BY_97BL0	RQANFLGRIW	PSSKG.RPGN	FPQSRPE	ps	APP ARNER
A_KE_Q23_A	RQANFLGKIW	PSRKG.RPGN	FPONRLE		ADD AFTCC
A_SE_SE659	• • • • • • • • • •	• • • • • • • • • •			
A_SE_SE725					
A_SE_SE753	RQANFLGRIW	PSSKG.RPGN	FPOSRLE	PT	ADD APTEC
A_SE_SE853	• • • • • • • • • • •				ALE.ABIEG.
A_SE_SE889					••••••
A_SE_UGSE8	RQANFLGKIW	PSHKG. RPGN	FPOSRPE.		איכול ממע
A_UG_92UG0	RQANFLGKIW	PSSKG.RPGN	FPOSRPE	PT	APPARTEG
A_UG_U455	RQANFLGKIW	PSNKG . RPGN	FPOSRDE		MADDARIEG.
AC_IN_2130	ROANFLGKIW	PSHKG RPGN	FI.O	NRPEP	TAPPAEIFG.
AC RW 92RW	ROANFLGKIW	PSNKG RPGN	FDOSDI.	EP	TAPPAESFR.
AC SE SE94	• • • • • • • • •		TTQDKII	•••••	TAPPA
ACD SE SE8	ROANFLGKIW	PSHKG PPGN	FI.OSDDE	PT	3333
ACG BE VI1	ROANFLGKTW	PSNKG PDGN	PDOCDDEDMA	PPAEP	APPA.ESFG.
AD SE SE69	ROANFLOKTW	DSSKG DDCM	FICORD	PPAEP	TAPPAESFG.
AD SE SE71	TIGITAL DOLLEN	MD4X. DICCI	rugsky	EP	TAPPAESFG.
ADHK NO 97	PODNELGETW	Deeke Door	TDOODD-	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •
ADK CD MAL	RODNELGKIW	DEUVE DOOM	FPQSRPE	PS	APPA.ESFG.
AG BE VI11	DOMETOKIM	PSGKG. RPGN	FLQSRPE	PT	APPA.ESFG.
AG NG 92NG	DOVNET GREM	POSKG. RPGN	FPQSRLE	PT	APPA.ESLG.
AG_NG_92NG AGHU GA VI	DOVNEL ON THE	PSNKG.RPGN	FLQNRPE	P	TAPPAESFG.
	ROMBLOKIW	PSNKG.RPGN	FLQNRPE	PT	APPA.ESFG.
AGU_CD_Z32	ROANELGKIW	PSNKG.RPGN	FLQNRPE	P	TAPPAESFE.
AJ_BW_BW21	ROANTIGKIW	PSNKG.RPGN	FLQSRPE	PT	APPA.ESFG.
B_AU_VH_AF	ROANFLGKIW	PSHKG.RPGN	FLQSRPE		TAPPEESFR.
B_CN_RL42_	ROANFLGKIW	PSHKG.RPGN	FLQSRPE		TAPPEESFR.
B_DE_D31_U	ROANFLGKIW	PSYKG.RPGN	FLQRRPE	P	TAPPEESFR.
B_DE_HAN_U	ROANFLGKIW	PSHKG.RPGN	FLQSRPE	P	TAPPEESFR.
B_FR_HXB2_	ROANFLGKIW	PSYKG.RPGN	FLQSRPE	P	TAPPEESFR.
B_GA_OYI	RQANFLGKIW	PSHKG.RPGN	FLQNRPE	P	TAPPAESFG.
B_GB_CAM1_	ROANFLGKIW	PSHKG.RPGN	FLQSRPE	P	TAPPEESFR.
B_GB_GB8_A	RQANFLGKIW	PSHKG.RPGN	FLQSRPEPIA	PPEP	TAPPEESFR.
B_GB_MANC_	RQANFLGKIW	PSHKG.RPGN	FLQSRPE	P	TAPPEESFR.
B_KR_WK_AF	RQANFLGKIW	PSHKG.RPGN	FLOSRPE	P	SAPDEESED
B_NL_3202A	RQANFLGKIW	PSHKG.RPGN	FLOSRPE	P	TADDFFCFD
B_TW_TWCYS	RQANFLGKIW	PSHKE.RPGN	FLQSRPE	P	TAPPERSED
B_US_BC_L0	RQANFLGKIW	PSHKG.RPGN	FPQSRLE	P	TAPPERSED
B_US_DH123	RQANFLGKIW	PSHKE.RPGN	FLQSRPE	P	SAPPERSED
B_US_JRCSF	RQANFLGKIW	PSYKG.RPGN	FLQSRPE	P	TAPPERSED
B_US_MNCG_	RQANFLGKIW	PSCKG.R.RN	FPOSRTE		TADDFFCFD
B_US_P896_	RQANFLGKIW	PSHKG.RPGN	FLQSRPE	P	TAPPEESED
B_US_RF_M1	RQANFLGKIW	PSHKG.RPGN	FLQSRPE	P	TAPPERSED
B_US_SF2_K	ROAMFLGKIW	PSYKG.RPGN	FLQSRPE	P	TAPPERED
B_US_WEAU1	KÖMNETGKIM	SSQKG.RPGN	FPQSRLE	P	TAPPERSED
B_US_WR27_	ROAXELGXIR	PSHXG.RPGX	FLQNRPE	P	SAPPARSED
B_US_YU2_M	KÖVNETGKIM	PSHKG.RPGN	FLQSRPE	P	TAPSEESUR
BF1_BR_93B	KÖWNETGKIM	PSHKG.RPGN	FLQSRPE	P	TAPPAESED
C_BR_92BR0	RQANFLGKIW	PSHRG.RPGN	LLQNRT	EP	TAPPE
C_BW_96BW0	RQANFLGKIW	PSHKG.RPGN	FLQ	SRPEP	TAPPARGED
C_BW_96BW1	RRANFLGKIW	PSHKG.RPGN	FLOSRPE	P	TADDARCE
C_BW_96BW1	GQANFLGKIW	PSHKG.RPGN	FLOSR	PEP	SADDARGED
C_BW_96BW1	RQANFLGKIW	PSHKG.RPGN	FLONRTEP		TAPPAESFK.
C_ET_ETH22	RQANFLGRLW	PSNKG.RPGN	FLOSRP	'ED	TADDRCT.DDD
C_IN_93IN1	RQANFLGKIW	PSHKG.RPGN	FLO.	SRPEP	TATECTORE
C_IN_93IN9	RQANFLGKIW	PSHKG. RPGN	FLO.	SRPEP	TAPPAESEK.
C_IN_93IN9	ROANFLGKIW	PSHKG RPGM	FI OND DEDUV	PPARPEP	TAPPAESER.
C_IN 94IN1	ROANFLGKIW	PSHKG RPGM	FI'U	SRPEP	TAPPAESFR.
C_IN_95IN2	ROANFLGKIW	PSHKG RPGN	FILO	SRPEP	TAPPAESFR.
CRF01 AE C	ROANFLOKTW	PLNKG BDGM	FDOSDI.D	PT	TAPPAESFR.
CRF01_AE_C	ROANFLGKIW	PSSKG PDGM	FDUCDUD	PT	APPA.ESLG.
CRF01 AE C	ROANFLORTW	PSSKG PDGM	PDOCDDD	PT	APPM.ESLG.
	RQANFLGRIW	NOTA	rryokpe	·····PT	APPA.ESLG.

CRF01_AE_T	RQANFLGKFW	PSNKG.RPGN	FPQSRPE	PT	APPA.ENWG.
CRF01_AE_T	KÖWNETGKIM	PSNKG.RPGN	FPOSRPE	PT	ADD ADWO
CRF01_AE_T	KÖWNETGKIM	PSNKG.RPGN	FPOSKPE	PT	APPA ENWC
CRF01_AE_T	RQANFLGKIW	PSNKG.RPGN	FPOSRPE	РТ	ADDA RAWC
CRF01_AE_T	ROANFLGKIW	PSNKG.RPGN	FPOSRPE	יים די	ADDA ENTAC
CRF01_AE_T	KOWNELGKIM	PSNKG.RPGN	FPQSRPE	PT	APPA ENWG
CRF02_AG_F	GOWNETGKIM	PSSKG.RPGN	FPQSRPE	РТ	APPA RST.C
CRF02_AG_F	KÖNNLIGKIM	PSSKG.RPGN	FPOSRPE		APPA FCFC
CRF02_AG_G	ROWNELGKIM	PSNKG.RPGN	FPOSRPE	P	SAPPARGEG
CRF02_AG_N	ROWNFICKIM	PSSKG.RPGN	FPOSRPE	Рт	ADDA FCFC
CRF02_AG_S	KOWNETGKIM	PSSKG.RPGN	FPOSRPE	РТ	APPA FGI.C
CRF02_AG_S	KÖWNETGKIM	PSSKG.RPGN	FPQSRPE	РТ	APPA ESEC
CRF03_AB_R	RQANFLGRIW	PSSKG.RPGN	FPOSRPE		ADD AFNEC
CRF03_AB_R	RQANFLGKIW	PSSKG.RPGN	FPOSRPE	DS.	APP AENEG
CRF04_cpx_	RQANFLGRMW	PSSKG.RPGN	FLONRPE	РТ	ADDA ECT.E
CRF04_cpx_	RQANFLGRMW	PSSKG.RPGN	FLQSRPE	РТ	APPA EST.E
CRF04_cpx_	RQANSLGRMW	PSSKG.RPGN	FLQSRTE	•••• PT	APPA ESEE
CRF05_DF_B	RQANFLGKVW	PSHKG.RPGN	FLOSRP	EP	CADDARCED.
CRF05_DF_B	GQANFLGRVW	LSHKG.RPGN	FLOSRP.	EP	CAPPARER.
CRF06_cpx_	RQANFLGKIW	PSNKG.RPGN	FLONRPE		TADDIFCEG
CRF06_cpx_	RQANFLGKIW	PSNKG.RPGN	FLONRPE	p	TAPPIESEG.
CRF06_cpx_	RQANFLGRIW	PSSKG.RPGN	FLONRE	p	
CRF06_cpx_	RQANFLGKIW	PSHKG.RPGN	FLONDDEOND	PEP	CADDAHORG.
CRF11_cpx_	RQANFLGKIW	PSSKG.RPGN	FLOSRDE	PT	ADDA BORG
CRF11_cpx_	ROANFLGKIW	PSSKG . RPGN	FI-OGDDE	PT	APPA.ESFG.
D_CD_84ZRO	ROANFLGKIW	PSHKG RPGN	FINCEDER		APPA.ESFG.
D CD ELI K	ROANFLGRIW	PSHKG RPGN	FI.OCDD	EP	TAPPAE.FG.
D_CD_NDK_M	ROANFLGKIW	PSHKG RPGN	FINCED D	EP	TAPPAESFG.
D UG 94UG1	ROANFLGKIW	PSHNG.RPGN	FIOSDEDA	EP	TAPPAESFG.
F1 BE VI85	ROANFLGKIW	PSNKG.RPGN	FIOCODE		
F1_BR_93BR	ROANFLGKTW	PSNKG.RPGN	ETOMBDE		TAPPAESFG.
F1 FI FIN9	ROANFLGKTW	PSNKG.RPGN	FIOCEDE		SAPPAESFR.
F1 FR MP41	ROANFLOKTW	PSNKG.RPGN	FLOWDDE		TAPPAESLG.
F2 CM MP25	ROANFLGKMW	PSNKG.RPGN	FLOWDDE		TAPPAESFG.
F2KU BE VI	ROANFLOKTW	DSNKG PDCN	FIOCHDE		TAPPAESFG.
G BE DRCBL	ROANFLOKTW	DONKG DOCK	FLONDDE		TAPPAESFG.
G NG 92NG0	ROANFLGKTW	PSNKG PDGN	FIQURPE		TAPPAENFG.
G SE SE616	BODNET GRIM	DONKG DOCK	FLONDER		TAPPAESFG.
H BE VI991	ROANFLCKIW	DSSKG PDCM	FRONKIE	P	TAPPAESLG.
H BE VI997	ROANFLCKIW	PECKG PROM	FPQKRLE	P	TAPPAESFG.
H CF 90CF0	PODNET CKIN	DECKE DOOM	FLOSRPE	P	TAPPAESFG.
J_SE_SE702	PODMET.CKTW	DECKE DROW	FLQSRPE	P	TAPPAESFG.
J SE SE788	DONNETOKIM	PSSKG.RPGN	FLQSRPE	P	TAPPAESLG.
K CD EQTB1	PODMET.GREW	PINKE DOOM	FLQSRPE	P	TAPPAESLG.
K CM MP535	DOMET.CETW	PUNKE. RPGN	FLQNRPE	P	TAPPAESFG.
N CM YBF30	DONNET GROW	PORKG. RPGN	FLQSRPE	P	TAPPAESFG.
O CM ANT70	KONNET GRAM	DD COMPRON	FPQTTTRK	EP	TAPPLESYG.
O CM MVP51	NOWNEL CICKLE	PP.GGTRPGN	YVQRPAH	P	SAPPMEEEVK
O SN 99SE	ROANTEL CICKEN	PP.GGTRPGN	YVQKQVS	P	SAPPMEEAVK
	KOANTI GIGIN	PP. GGTRPGN	YAQRQVS	P	SAPPMTEEMK
O_SN_99SE_	ROANTI GITTI	PP.GGTRPGN	YAQRQVS	P	SAPPMTEEMK
U_CD83C	RQANFLGKIW	PSNKG.RPGN	FLQNRPE	P	TAPPAESFG.
	501				
000000000	501			•	550
00BW0762_1	·····FE	EINPTP	KQE	PKDRE	PLTSLKSLFG
00BW0768_2	·····FE	ETTTPAP	KQE	LKDRE	PLTALKSLEG
00BW0874_2	FE	ETTPAL	KRE	LKERE	PLISLKSLFG
00BW1471_2	· · · · · · FE · · · ·	ETTPAP	KQE	PKDRE	PLTSLKSLEG
00BW1616_2	· · · · · · F · · · ·	.GETTPSP	RQE	AKDRE	PLISTKSTFG
00BW1686_8	···· FE	ETTPAP	KQE	PKDR	PLTSLKSLEG
00BW1759_3	· · · · · · FE · · ·	ETTPAP	KOE	PKDRE	TT.TQT.DQT.DQ
00BW1773_2	FE	ETTPAP	KQE	PKDRE	PLTSLKSLFG

00BW1783 5	ਸ਼ਸ਼	ETTPVQ	VOE	mwnnn	DI mai wax sa
00BW1795 6	F	.EETTPSP	KQE	INDRE	PLISLKSLEG
_	מס	. PETTEOF	NQB	DKDKE	PLISTKRIEG
00BW1811_3	FE	ETTPAS	KQE	KKDRE	TLTSLRSLFG
00BW1859_5	FE	ETTPAP	KQE	QKDRE	PLTSLKSLFG
00BW1880_2	FE	ETTPAP	KQE	PKDRE	PLTSLKSLFG
00BW1921_1	FE	ETTPAP	KQE	PKDRE	PLTSLKSLFG
00BW2036_1	FE	ETTPAP	KQE	LKDRE	PLISLKSLFG
00BW2063_6		.EETTPAP	KQE	MKDKE	PLISLKSLLG
00BW2087_2	FE	ETTPAS	KQD	LKDRE	PLTSLKSLFG
00BW2127 2	FE	ETTHAP	KOE	LKDRE	ALTSLKSLEG
00BW2128 3	FE	ETTPAP	KOE	PKNRE	DI.TSI.KSI.EG
00BW2276 7	FE	ETTPEL	KOG	ם מחאם	DITCIPCIEC
00BW3819 3	FE	EITPAP	KUE	mVDDE	PITCINGING
00BW3842 8	ਸ਼ਸ਼	ETTPAP	rop	DKDDGDV DE	PLISTING
00BW3871 3	ਹਾਰ	ETTPVP	NQE	PRDRGPY.RE	PLISLKSLFG
_	DD	EIIPVP	KQE	PIDRE	PLTSLKSLFG
00BW3876_9	rE	ETTPTL	KQE	LKDRE	PLTSLKSLFG
00BW3886_8	FE	ETTPVP	KQE	QKDRE	ALTSLKSLFG
00BW3891_6	FE	EITPVP	KQE	PKDRE	PLTSLKSLFG
00BW3970_2	FE	ETTPAP	KQE	PKDRE	PLISLKSLFG
00BW5031_1	FG	ETTPAP	KQE	MKERE	PLISLKSLFG
96BW01B21	FE	ETTPAP	KQE	PKDRE	PLTSLRSLEG
96BW0407	FE	ETTPGQ	KOE	SKDRE	TI.TST.KST.FC
96BW0502	FE	ETTPAP	KOE	DKUBEDA DE	DITALDELEC
96BW06 J4	FE	ETTPAL	K∪E	שלואם אלואם	DI MOI KODEO
96BW11 06		EETTPAP	VOE	LVDV	PLISTESPEG
96BW1210	ישש	·DEITEMP	··· NQE····	TKURE	PLISTKSPLE
	· · · · · · · · · · · · · · · · · · ·	ETTPAQ	KQE	PKDREP	PLASLKSLFG
96BW15B03	rE	ETTPAP	KQE	PKDRE	PLISLKSLFG
96BW16_26	FG	ETTPAP	KQE	PKDRE	PLTSLRSLFG
96BW17A09	FE	ETTPAP	KQE	PKDRE	PLTSFKSLFG
96BWM01_5	• • • • • • • • • •	.EETTPAP	KQE	MKDKEPY.KE	PLISLRSLFG
96BWMO3_2	PE	.PTAPPAE	RQE	SKDRE	PLISLKSLFG
98BWMC12_2	LE	ETTPAS	KQE	MKDRE	PLISLKSLFG
98BWMC13_4		.EETTPAP	KQE	PKDKE	PLISLKSLFG
98BWMC14 a	FE	ETTPAP	KOE	OKDRE	PLTSLKSLEG
98BWM014 1	FESRP	EPTAPPAES.	FROE	PKDR E	DI.TAI.KSI.EG
98BWM018 d	FE	ETTPAL	KOE	PKDREA	DI.TGI.KGI.PC
98BWM036 a	FE	ETNLAP	KOE	מאחסש	DI MCI NOT EC
98BWM037 d	ਸ਼ਬ	ETTPAP	שחם	AKDKE	PLISHKSDEG
99BW3932 1	E	ETTPAP	VOE	ANDRE	PUNSUKSUFG
99BW4642 4	E	EIIPAP	KQE	DKDRE	ALTSLKSLFG
	·····FE···	ETTPAP	KQE	PKDRE	PLTSLKSLFG
99BW4745_8	FE	GATPTP	KQE	PRDRE	PLTSLKSLFG
99BW4754_7	FE	ETTPTQ	KQE	SKDRE	PLTSLKSLFG
99BWMC16_8	FE	ETNPAP	KQE	LKNRE	TLTSLRSLFG
A2_CD_97CD	• • • • • • • • • • •	EEITSSL	KQE	NREPST	PAISLKSLFG
A2_CY_94CY	• • • • • • • • • •	.MGEEITSSL	KQELE	TREPYN	PAISLKSLFG
A2D97KR	• • • • • • • • • • • • • • • • • • • •	.MGEETTPLQ	KQELK	$\mathtt{NREQH} \ldots \mathtt{T}$	PAISLKSLFG
A2G_CD_97C					• • • • • • • • •
A BY 97BL0		MGEEIT	PSLK.OE	OKDRE. OYP	PSTST.KST.FC
A_KE_Q23_A		MGEETV	SPLK.O. F	OKORE OAO	PT.VST.KST.EG
A SE SE659		•••••		grantagrag	БПОЛЦОЛЕС
A SE SE725		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •
A SE SE753	••••••	MREEIA	יייייייייייייייייייייייייייייייייייייי		
		PREBIA	SPPK.QE	QKGQDP	PLVSTKSTEG
A_SE_SE853	•••••	• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • • • • •
A_SE_SE889	•••••		• • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • •
A_SE_UGSE8	• • • • • • • • • • •	MGEEIA	SPPK.QE	QNNP	PSVSLKSLFG
A_UG_92UG0	••••••	MREEIV	SPPK.QE	QNDRDQNP	PSVSLKSLFG
A_UG_U455_	• • • • • • • • • •	.MGEKMTSPA	KQELK	DREQT	PLVSLKSLFG
AC_IN_2130	FE	ETTPAL	KQE	QKDRE	PLTSLKSLFG
AC_RW_92RW	···· ENFG	MGEEIASPL.	K.OE	OKDRE	PT.TST.KST.FG
AC_SE_SE94	•••••				roundity
ACD SE SE8		FGEEITP	SOKO P	OKDKE TA	מו זמן עמן שמ
			~.~w.~p	Χισισηχ	PHADINGHIG

ACG_BE VI1		KEDATDOO	PKOT		
AD_SE SE69	• • • • • • • • • • • • • • • • • • • •	FGERTAD	PKQE	PRDKGLYP	PLTSLKSLFG PLASLKSLFG
AD_SE_SE71		TOBBIAF	gvvc	KDKELY	PLASLKSLFG
ADHK NO 97		TGERTT			PLVSLKSLFG
ADK_CD MAL		FGERIK	DEOK O	QKDKEPPP	PLVSLKSLFG PLASLKSLFG
AG BE VI11	• • • • • • • • • • • • • • • • • • • •	MEERIT	PSOK.QE	QKDKEL.Y	PLASLKSLFG PLTSLKSLFG
AG NG 92NG	• • • • • • • • • • •	FGEETAD	S I.K O	PRDIGLYP	PLTSLKSLFG L.TSLKSLFG
AGHU GA VI		FGEETA	ם ממפס	PREKESPP	L.TSLKSLFG PLTSLKSLFG
AGU CD Z32	• • • • • • • • • • •	TKEETTS	G DK O E	PREKER.Y	PLTSLKSLFG PLASLKSLFG
AJ BW BW21	• • • • • • • • • •	FGEETA	DODK O E	PRDKELYP	PLASLKSLFG PLTSLKSLFG
B AU VH AF	• • • • • • • • • • • • • • • • • • • •	FGEETTTD	SONOE	GKDKEL.Y	PLTSLKSLFG PLASLRSLFG
B_CN_RL42_		FGEETTTD	SOKOE	PIDKELY	PLASLRSLFG PLASLKSLFG
B DE D31 U	• • • • • • • • • •	FGEETATP	FOKOE	DIDK BIN	PLASLKSLFG PLASLRSLFG
B DE HAN U	• • • • • • • • •	FGEATAP	SOROE	PIDKELY	PLASLRSLFG PLASLKSLFG
B_FR_HXB2_		SGVETTTP	DOKOE	PIDKELY	PLASLKSLFG PLTSLRSLFG
B_GA_OYI	• • • • • • • • • •	FGEETTTD	POKOE	PIDKELY	PLTSLRSLFG PLTSLRSLFG
B_GB_CAM1_	• • • • • • • • •	FGEEKTTP	SUKUE	PIDKGLY	PLTSLRSLFG PLASLRSLFG
B GB GB8 A	• • • • • • • • • •	FGGETTTP	SOKOE	DIME DIM	PLASLRSLFG PLASLRSLFG
B_GB_MANC	• • • • • • • • • •	FGEETTTP	AOKOE	PIDKELY	PLASLRSLFG
B_KR_WK AF		FGEETTTP	SOKOF	PIDKELY	PLASLRPLFG
B_NL_3202A	••••••	FGEETTTP	SOKOE	PRDKELY	PLASLRSLFG
B_TW_TWCYS	• • • • • • • • • • •	FGEQTTTP	SOKOE	PIDKDLY	PLASLRSLFG
B_US_BC_LO	••••••	FGEETTTP		DKEMY	PLASLESLFG
B_US_DH123		FGEETATP	~ ~ ~ ~ .	PKELY	PLASLRSLFG
B_US_JRCSF		FGEETATP	SOKOFOKOF	PIDKELY	PLASLKSLFG
B_US_MNCG_		FGEETTTP	. YOKOEKKOE	TIDKELY	PLISLRSLFG
B_US_P896		FGEETTTP		PIDKELY	PLASLKSLFG
B_US_RF_M1	• • • • • • • • • • • • • • • • • • • •	FGEETTP		KIDKELY	PLASLKSLFG
B_US_SF2_K		FGEEKTTP		PIDKELY	PLASLKSLFG
B_US_WEAU1		FREETTTP		PIDKELY	PLTSLKSLFG
B_US_WR27_		FGXETTTP	SOKOE	PIDKELY	PLISLKSLEG
B_US_YU2_M		FGEETTTP	.SOKOE	PIDKELY	PLACIDOLEC
BF1_BR_93B		FGEEVTTP	.SOKOE	PIDKEMY	DIVELDEL EG
C_BR_92BR0	ESFR	FGEETTTPS.		TIDKEL	DITCI NOT BO
C_BW_96BW0	FE	ETTPVP	KOE	PKDRE	DITELING EQ
C_BW_96BW1	• • • • • • • • • • • • • • • • • • • •	.EETTPAP	KOE	TKDRE	DI.TST.KST.EC
C_BW_96BW1	FE	ETTPAQ	KOE	PKDREP	DI'V GI'NGI'EG
C_BW_96BW1	FE	ETTPAP	KOE	ש פרואס	DI TOT WOT DO
C_ET_ETH22	PTAPPPESFR	FEEATPSPK.	O.E	LKDBE	AT THE T WELL THE
C_IN_93IN1	· · · · · · · · · · · · · · · ·	· ETTPAP.	. KOE	ממחאם	DI MOY
C_IN_93IN9	· · · · · · · · · · · · · · · · · · ·	. ETPPAP.	KOE	שמתאמ	DI MOY
C_IN_93IN9	· · · · · · · · · · · · · · · · · · ·	· ETTPAL	KOE	PKDRE	DI/TOI VOI DO
C_IN_94IN1	•••••••••••••••••••••••••••••••••••••••	· · PIPPAP	KOE	סעבספ	DI MOI DOI DO
C_IN_95IN2	· · · · · · · · · · · · · · · · · · ·	· ETTPAP	KOE	PKDRE	DI-TICE DOT TO
CRF01_AE_C		MGEETT	SFPK.OR	OKUKE FIDE	DI MOI MOI DO
CRF01_AE_C	· · · · · · · · · · · ·	MGEETT	SFPK.QE	OKDKK. OPP	PLVSLKSLEG
CRF01_AE_C	• • • • • • • • •	MGEETI	SFSR.QE	OKDRE. HPP	PLVSLKSLEG
CRF01_AE_T	• • • • • • • • • • • • • • • • • • • •	MGEETT	SLIKOR	OKDKE DED	DI MOI MOI DO
CRF01_AE_T	• • • • • • • • • • •	MGEETT	SLPK.O. R	ממט תאמאט	T TYOY WOT TO
CRF01_AE_T	• • • • • • • • • •	MGBB		OKUKE HDD	DOMET POT DO
CRF01_AE_T	• • • • • • • • • •	MGEETI	SSLK.OE	OKDKE DDD	DI.TCI.VCI DO
CRF01_AE_T	• • • • • • • • •	MODELIGERI	TSLPKOE	ממש שאמאס	DI MOI MOI DO
CRF01_AE_T	• • • • • • • • • •	MGEETT	SFLK.O E	OKDKE RDD	DOVET VOT DO
CRF02_AG_F		MGEETI	SPPK.O. R	מע.ז מסחממ	DI NOT WOT TO
CRF02_AG_F	• • • • • • • • • •	MGEETT	SPPK.O. R	DDDOG T.VD	DI AGI VOI DO
CRF02_AG_G	•••••	TKEETISS	POOE	PRDKG I.VD	DI.TCI.VCI DO
CRF02_AG_N	• • • • • • • • •	MGEETL	PSPO.OR	PRDKG I.VD	DI MOT MOT DO
CRF02_AG_S	• • • • • • • • • •	IGERIT	SSOK.O. E	DCDKC IVD	DI ACT WOT DO
CRF02_AG_S CRF03 AB R	• • • • • • • • •	MGEETT	SSPK.O E	מעד באתםם	DI MOI WAT TO
CRF03_AB_R		MGEBIT	PSLK.O. R		DOTOT WAT DO
	• • • • • • • • • • • • • • • • • • • •	MGEELT	PSLK.QE	QKDRGQHP	PSISLKSLFG

```
CRF04_cpx_
           ..... RKEETTS... S.LK.Q...E PRDKE..LYP .LTSLKSLFG
CRF04_cpx_
           ..... MKEETTS... S.PK.Q...E PRDKE..LYP .LTSLKSLFG
           ..... MKEETTS... S.PK.Q...E QRDKE..LYP .ITSLKSLFG
CRF04_cpx_
CRF05 DF B
           ..... FGEEIAS... .SPKQE...Q KDEG...LYP PLASLKSLFG
CRF05_DF_B ..... FGEEITP... .SPKQE...Q KDEG...KYP PLASLKSLFG
CRF06 cpx
           ..... FGEEIAP... S.PK.Q...E SKEKEEKGLY PLASLKSLFG
CRF06_cpx_
           ..... FGEETAP... S.PE.Q...K PKEKE...LY PLTSLRSLFG
CRF06_cpx_
           ..... FGEETAP... S.LK.Q...E PKEKEKE.LY PLASLKSLFG
CRF06_cpx_
           ..... FGEEIAP... S.PK.Q...E PKEKE...LY PLASLKSLFG
CRF11_cpx_
           ..... FGEEIAP... .SPK.Q...E PKEKEK.ELY PLTSLKSLFG
CRF11 cpx_
           ..... FGEETTP.... SPK.Q...E PKEK...ELY PITSLKSLFG
D CD 84ZR0
           ..... FGEEITP... .SQKQEQK.. DKDK...ELY PLASLKSLFG
D CD ELI K
           ..... FGEEITP... .SQKQE...Q KDK....ELY PLTSLKSLFG
           ..... FGEEITP... .SQKQE...Q KDK....ELY PLASLKSLFG
D CD NDK M
D UG 94UG1
           ..... LGEEITP... . PQKQE...Q KDK....ELY PLTSLKSLFG
F1_BE_VI85
           .....FR... .EEITPSP.. ...KQE.... QKDGEL..YP PLASLKSLFG
F1 BR 93BR
           .....FG... .EETTPSP.. ...KQE.... QKDEGL..YP PLASLKSLFG
F1_FI_FIN9
           .....IR... .EEVTPSP.. ...RQE.... QKEEGQ..YP PLASLKSLFG
F1_FR_MP41
           .....FK... .EEITPSP.. ...KQE.... QKDEGQGLYP PLASLKSLFG
F2_CM_MP25
           .....FG... .EEIAPSP.. ...KQE.... QKDKEQ..VP PLISLKSLFG
F2KU BE VI
           .....FG... .EEINPSP.. ...RQE.... TKDKGQ..EP PLTSLKSLFG
G BE DRCBL
           ..... FGEEIAP... S.PK.Q...E QKEKE..LYP L.SSLKSLFG
G NG 92NG0
           ..... FGEEIAP... S.PK.Q...E PKEKE..LYP L.TSLKSLFG
G SE SE616
          ..... FGEEIAP... S.PK.Q...E MKEKE..LYP ...SLKSLFG
H_BE_VI991
          .....FG... .EEITPSP.. ...RQE.... LKEQE....P PLTSLRSLFG
H_BE_VI997
           .....FG... .EEMTSSP.. ...KQE.... LKDKE....P PFASLKSLFG
H_CF_90CF0
           .....FG... .EEMTPSP.. ...KQEQ... LKDKE....P PLASLRSLFG
J_SE_SE702
           .....FG... ..EEIPSP.. ...KQE.... PKDKE...LY PLTSLRSLFG
J_SE_SE788
           ....LG... .EEIPSP.. ...KQE.... PKDKE...LY PLTSLKSLFG
K_CD_EQTB1 .....FG... .EKITPSL.. ...RQE.... MKDQEQ..GP PLTSLKSLFG
K_CM_MP535 .....FG... .EEITPSP.. ...RQE.... TKDKEQ..SP PLTSLKSLFG
N_CM_YBF30
           .....FQ... .. EEKSTQ.. GKEMQE...N QERTENSLYP PLTSLRSLFG
O CM ANT70
           .....LY PFASLKSLFG
O_CM_MVP51
           .....LY PFASLKSLFG
O_SN_99SE_ .....LY PFASLRSLFG
O_SN_99SE_
           U CD 83C
           .....FG... .EETTPSP.. ...KQE.... PRDKESL.YP PLTSLKSLFG
           551
00BW0762 1
          SDPLSO
00BW0768 2
          SDPLSQ
00BW0874 2
          NDPLSO
00BW1471 2
          SDPLSO
00BW1616 2
          SDPLSO
00BW1686 8
          SDPLSO
00BW1759 3
          SDPLSQ
00BW1773 2
          SDPLSQ
00BW1783 5
          SDPLSO
00BW1795 6
          SDPLSO
00BW1811 3
          SDPLSQ
00BW1859 5
          SDPLSQ
00BW1880 2
          NDPLSQ
00BW1921 1
          SDPLSQ
00BW2036_1
          SDPLSQ
00BW2063 6
          NDPLSQ
00BW2087 2
          SDPLSQ
00BW2127 2
          SDPLSQ
00BW2128 3
          SDPWSQ
00BW2276_7
          SDPLSQ
00BW3819 3
          SDPLSO
00BW3842 8
          SDPLSO
```

```
00BW3871_3 SDPLSQ
00BW3876_9
           SDPLSQ
00BW3886_8 SDPLSQ
00BW3891_6 SDPLSQ
00BW3970_2 SDPLSQ
00BW5031_1 SDPLSQ
 96BW01B21 SDPLSQ
 96BW0407 NDPLSQ
 96BW0502 SGPLSQ
 96BW06 J4 SDPLSQ
 96BW11 06 SDPLSQ
 96BW1210 NDPLSQ
 96BW15B03 SDPLSQ
 96BW16 26 NDPLSQ
 96BW17A09 SDPLSQ
 96BWMO1 5 SDPLSQ
 96BWM03_2
           SDPLSQ
98BWMC12 2
           NDPLSO
98BWMC13 4
           SDPLSO
98BWMC14 a NDPLSQ
98BWM014 1
           SDPLSQ
98BWMO18_d SDPLSQ
98BWMO36_a
           SDPLSQ
98BWMO37_d SDPLSQ
99BW3932_1
            SDPLSQ
99BW4642_4
            SDPLSQ
99BW4745_8
           SDPLSQ
99BW4754_7
            NDPLSQ
99BWMC16_8
           GDPLSQ
A2 CD 97CD
           NDLLSQ
A2_CY_94CY NDPLLQ
A2D___97KR NDPLLQ
A2G_CD_97C
A BY 97BL0
            NDPLSQ
A KE Q23 A
           NDLLSQ
A SE SE659
A SE SE725
A SE SE753
            NDLLSQ
A SE SE853
            . . . . . .
A SE SE889
A_SE_UGSE8 NDLLSQ
A_UG_92UG0 NDLLSQ
A_UG_U455_
            NDPLSQ
           SDPLSQ
AC_IN_2130
AC_RW_92RW NDPLSQ
AC_SE_SE94
            . . . . . .
ACD_SE_SE8 NDP...
ACG BE VI1 NDP...
AD_SE_SE69 NDP...
AD_SE_SE71
            . . . . . .
ADHK_NO_97 NDPLSQ
ADK_CD_MAL NDQLSQ
AG_BE_VI11 NDP...
AG_NG_92NG NDP...
AGHU GA VI SDP...
AGU CD Z32 SDP...
AJ BW BW21 SDP...
B_AU_VH_AF NDPSSQ
B_CN_RL42
            NDPSSQ
B_DE_D31_U NDPSSQ
B_DE_HAN_U SDPSSQ
```

```
B_FR_HXB2_ NDPSSQ
  B_GA_OYI
              NDPSSO
  B_GB_CAM1_
               NDPSSQ
  B_GB_GB8_A NDPSSO
  B_GB_MANC
               NDPSSO
  B_KR_WK_AF NDPSSQ
  B_NL_3202A NDPSSQ
  B_TW_TWCYS NDPSSO
  B_US_BC_LO NDPSSO
  B_US_DH123 NDP...
B_US_JRCSF NDPSSQ
  B_US_MNCG_ NDPLSQ
  B_US_P896_ NDPSSQ
B_US_RF_M1 NDPSSQ
  B_US_SF2_K NDPSSQ
  B_US_WEAU1 NDPSSQ
 B_US_WR27_ NDPSSQ
B_US_YU2_M SDPSSQ
  BF1_BR_93B NDPSSQ
  C_BR_92BR0 SDPLST
  C_BW_96BW0 SDPLSQ
 C_BW_96BW1 SDPLSQ
 C_BW_96BW1 NDPLSQ
 C_BW_96BW1 SDPLSQ
 C_ET_ETH22 NDHLLQ
 C_IN_93IN1 SDLLSQ
 C_IN_93IN9 SDPLSQ
 C_IN_93IN9 SDPLSQ
 C_IN_94IN1 SDPLSQ
 C_IN_95IN2 SDPLSQ
 CRF01_AE_C NDPLSQ
 CRF01_AE_C NDPLSO
 CRF01_AE C NDPLSO
 CRF01_AE_T NDPSSO
 CRF01_AE_T NDPLSO
 CRF01_AE_T NDPLSO
 CRF01_AE_T NDPLSQ
 CRF01_AE_T NDPLSQ
 CRF01_AE_T NDPLSQ
 CRF02_AG_F NDP...
 CRF02_AG_F NDP...
 CRF02_AG_G NDP...
 CRF02 AG N NDP...
 CRF02_AG_S NDP...
 CRF02_AG_S NDPYSQ
CRF03_AB_R DDPLSQ
CRF03_AB_R NDPLSQ
CRF04_cpx_ SDPLSQ
CRF04_cpx_ NHPLSQ
CRF04 cpx SDPLSR
CRF05_DF_B NDPLSQ
CRF05_DF_B NDPLSQ
CRF06_cpx_ SDP...
CRF06_cpx_ NDP...
CRF06_cpx_ NDP...
CRF06_cpx_
            SDP...
CRF11_cpx_
            SDP...
CRF11_cpx_ SDPLSQ
D_CD_84ZR0 NDPLSQ
D_CD_ELI_K NDPLSQ
D_CD_NDK_M NDPSSQ
```

```
D_UG_94UG1 NDPLSQ
F1_BE_V185 NDP...
F1_BR_93BR NDP...
F1_F1_F1N9 NDP...
F1_FR_MP41 SDP...
F2_CM_MP25 SDQ...
F2KU_BE_VI SDPLLQ
G_BE_DRCBL NDQ...
G_NG_92NG0 SDP...
G_NG_92NG0 SDP...
H_BE_V1991 NDQ...
H_BE_V1997 NDPLSQ
H_CF_90CF0 SDPLLQ
J_SE_SE702 SDPLSQ
J_SE_SE788 SDPLSQ
K_CM_MP535 NDPLSQ
K_CM_MP535 NDPLSQ
N_CM_YBF30 NDPSSQ
O_CM_ANT70 TDQ...
O_CM_MVP51 TDQ...
O_SN_99SE_TDQ...
U_CD___83C SDPSLQ
```

Table 12. HIV Env Sequence Alignment GCG Multiple Sequence File. Written by Omiga 1.1

Name:	00BW0762_1	Len:		Check:		Weight:	1.00
Name:	00BW0768_2	Len:	962	Check:	9565	Weight:	1.00
Name:	00BW0874_2	. Len:	962	Check:	7745	Weight:	1.00
Name:		Len:	962	Check:	9593	Weight:	1.00
Name:	00BW1616_2	Len:	962	Check:	792	Weight:	1.00
Name:	00BW1686_8	Len:	962	Check:	3744	Weight:	
Name:	00BW1759_3	Len:	962	Check:	9808	Weight:	
Name:	00BW1773_2	Len:	962	Check:	3500		
Name:	00BW1783_5	Len:	962	Check:	9684	Weight:	1.00
Name:	00BW1795_6	Len:	962	Check:	8410		
Name:	00BW1811_3	Len:	962	Check:	2068	Weight:	
Name:	00BW1859_5	Len:	962	Check:	5692		
Name:	00BW1880_2	Len:	962	Check:	1901		
Name:	00BW1921_1	Len:	962	Check:	5923		
Name:	00BW2036_1	Len:	962	Check:	7035		
Name:	00BW2063_6	Len:	962	Check:	4853		
Name:	00BW2087_2	Len:	962	Check:	2085		
Name:	00BW2127_2	Len:	962	Check:	4015		
Name:	00BW2128_3	Len:	962	Check:	5884		
Name:	00BW2276_7	Len:	962	Check:	8913		
Name:	00BW3819_3	Len:	962	Check:	9390		
Name:	00BW3842_8	Len:	962	Check:	8867		
Name:	00BW3871_3	Len:	962	Check:	7069		
Name:	00BW3876_9	Len:	962	Check:	4761	_	
Name:	00BW3886_8	Len:	962	Check:	7681		
Name:	00BW3891_6	Len:	962	Check:	379	Weight:	1.00
Name:	00BW3970_2	Len:	962	Check:	8001		1.00
Name:	00BW5031_1	Len:	962	Check:	4902	-	
Name:	96BW01B21	Len:	962	Check:	5774	Weight:	1.00
Name:	96BW0407	Len:	962	Check:	4260		
Name:	96BW0502	Len:	962	Check:	4658		
Name:	96BW06_J4	Len:	962	Check:	9749		1.00
Name:	96BW11_06	Len:	962	Check:	4328	Weight:	1.00
Name:	96BW1210	Len:	962	Check:	3855	Weight:	1.00
Name:	96BW15B03	Len:	962	Check:	9133	Weight:	1.00
Name:	96BW16_26	Len:	962	Check:	5 W	eight:	1.00
Name:	96BW17A09	Len:	962	Check:	6458	Weight:	1.00
Name:	96BWMO1_5	Len:	962	Check:	9487	Weight:	1.00
Name:	96BWMO3_2	Len:	962	Check:	8766		1.00
Name:	98BWMC12_2	Len:	962	Check:	2722	Weight:	1.00
Name:	98BWMC13_4	Len:	962	Check:	2526	Weight:	1.00
Name:		Len:	962	Check:	7761	Weight:	1.00
Name:		Len:	962	Check:	93	Weight:	1.00
	98BWM018_d	Len:	962	Check:	279	Weight:	1.00
Name:		Len:	962	Check:	134	Weight:	1.00
Name:		Len:	962	Check:	9669	Weight:	1.00
Name:		Len:	962	Check:	3527	Weight:	1.00
Name:	99BW4642_4	Len:	962	Check:	1175	Weight:	1.00
	99BW4745_8	Len:	962	Check:		Weight:	1.00
Name:		Len:	962	Check:	5709	Weight:	1.00
Name:	-	Len:	962	Check:	285	Weight:	1.00
Name:		Len:	962	Check:	2892	Weight:	1.00
	A2_CY_94CY	Len:	962	Check:	8628	Weight:	1.00
Name:		Len:	962	Check:	471	Weight:	1.00
Name:		Len:	962	Check:	939	Weight:	1.00
Name:	A_BY_97BL0	Len:	962	Check:	4291	Weight:	1.00
Name:	A_KE_Q23_A	Len:	962	Check:	1190	Weight:	1.00

```
Name: A SE SE659
                                   Len:
                                              962
                                                     Check: 6674 Weight:
                                                                                       1.00
 Name: A SE SE725
                                   Len:
                                              962
                                                     Check: 4925 Weight:
                                                                                       1.00
                                             962 Check: 2482 Weight: 1.00
962 Check: 1860 Weight: 1.00
962 Check: 2102 Weight: 1.00
 Name: A_SE_SE753
                                   Len:
 Name: A_SE SE853
                                  Len:
 Name: A SE SE889
                                  Len:
                                             962 Check: 5063 Weight: 1.00
 Name: A SE UGSE8
                                   Len:
                                  Len: 962 Check: 6685 Weight: 1.00
 Name: A_UG_92UG0
                                  Len: 962 Check: 8657 Weight: 1.00
 Name: A_UG_U455
                                  Len: 962 Check: 8657 Weight: 1.00
Len: 962 Check: 7784 Weight: 1.00
Len: 962 Check: 4676 Weight: 1.00
Len: 962 Check: 2949 Weight: 1.00
Len: 962 Check: 1464 Weight: 1.00
Len: 962 Check: 2980 Weight: 1.00
Len: 962 Check: 8959 Weight: 1.00
Len: 962 Check: 7056 Weight: 1.00
Len: 962 Check: 487 Weight: 1.00
Len: 962 Check: 2555 Weight: 1.00
Len: 962 Check: 6342 Weight: 1.00
 Name: AC IN 2130
 Name: AC RW 92RW
 Name: AC SE SE94
 Name: ACD SE SE8
 Name: ACG BE VI1
 Name: AD_SE_SE69
 Name: AD SE SE71
 Name: ADHK NO 97
 Name: ADK CD MAL
 Name: AG BE VI11
                                   Len: 962 Check: 6342 Weight: 1.00
Len: 962 Check: 1272 Weight: 1.00
 Name: AG_NG_92NG
 Name: AGHU GA VI
                                   Len: 962 Check: 1974 Weight: 1.00
 Name: AGU CD Z32
                                   Len: 962 Check: 4356 Weight: 1.00
 Name: AJ BW BW21
                                   Len: 962 Check: 9995 Weight: 1.00
 Name: B AU VH AF
                                  Len: 962 Check: 5833 Weight: 1.00
 Name: B CN RL42
                                  Len: 962 Check: 4092 Weight: 1.00
                         Len: 962 Check: 4092 Weight: 1.00
Len: 962 Check: 5486 Weight: 1.00
Len: 962 Check: 3480 Weight: 1.00
Len: 962 Check: 6939 Weight: 1.00
Len: 962 Check: 9780 Weight: 1.00
Len: 962 Check: 9716 Weight: 1.00
Len: 962 Check: 9716 Weight: 1.00
Len: 962 Check: 4180 Weight: 1.00
Len: 962 Check: 9762 Weight: 1.00
Len: 962 Check: 6641 Weight: 1.00
Len: 962 Check: 7168 Weight: 1.00
Len: 962 Check: 3591 Weight: 1.00
Len: 962 Check: 3591 Weight: 1.00
Len: 962 Check: 6905 Weight: 1.00
Len: 962 Check: 6905 Weight: 1.00
Len: 962 Check: 9381 Weight: 1.00
Len: 962 Check: 9381 Weight: 1.00
Len: 962 Check: 9951 Weight: 1.00
Len: 962 Check: 5855 Weight: 1.00
Len: 962 Check: 5855 Weight: 1.00
Len: 962 Check: 5855 Weight: 1.00
Len: 962 Check: 5451 Weight: 1.00
Len: 962 Check: 5451 Weight: 1.00
Len: 962 Check: 5451 Weight: 1.00
Len: 962 Check: 5841 Weight: 1.00
Len: 962 Check: 5841 Weight: 1.00
 Name: B DE D31 U
                                  Len: 962 Check: 5486 Weight: 1.00
 Name: B DE HAN U
 Name: B_FR_HXB2_
 Name: B GA OYI
Name: B_GB_CAM1
Name: B_GB_GB8 C
Name: B GB MANC
Name: B KR WK AF
Name: B NL 3202A
Name: B TW TWCYS
Name: B_US_BC_L0
Name: B_US_DH123
Name: B US JRCSF
Name: B_US_MNCG_
Name: B_US_P896_
Name: B_US_RF_M1
Name: B_US_SF2_K
Name: B_US_WEAU1
Name: B_US_WR27_
Name: B_US_YU2_M
                                  Len: 962 Check: 5841 Weight:
                                                                                      1.00
Name: BF1 BR 93B
                                  Len: 962 Check: 5506 Weight:
                                                                                      1.00
Name: C_BR_92BR0
                                  Len: 962 Check: 8769 Weight:
                                                                                      1.00
                                  Len: 962 Check: 6197 Weight:
Name: C_BW_96BW0
                                                                                      1.00
Name: C_BW_96BW1
                                  Len: 962 Check: 8144 Weight:
                                                                                      1.00
Name: C_BW_96BW1
                                  Len: 962 Check: 1160 Weight:
                                                                                      1.00
Name: C_BW_96BW1
                                Len: 962 Check: 2736 Weight:
                                                                                      1.00
Name: C ET ETH22
                               Len: 962 Check: 8219 Weight:
                                                                                      1.00
Name: C_IN_93IN1
                                Len: 962 Check: 4068 Weight:
                                                                                      1.00
Name: C_IN_93IN9
                                Len: 962 Check: 3674 Weight:
                                                                                      1.00
Name: C_IN_93IN9
                                Len: 962 Check: 1581 Weight:
                                                                                      1.00
Name: C_IN_94IN1
                              Len: 962 Check: 9352
                                                                      Weight:
                                                                                      1.00
Name: C IN 95IN2
                                Len:
                                            962 Check: 6988
                                                                      Weight:
                                                                                      1.00
Name: CRF01_AE_C
                              Len:
                                           962 Check: 8684 Weight:
                                                                                      1.00
                                           962 Check: 3342 Weight:
Name: CRF01 AE C
                               Len:
                                                                                      1.00
Name: CRF01_AE_C
                               Len:
                                            962 Check: 5017
                                                                      Weight:
                                                                                      1.00
                              Len:
Name: CRF01 AE T
                                            962 Check: 9124
                                                                      Weight:
                                                                                      1.00
Name: CRF01 AE T
                                Len:
                                            962 Check: 2718 Weight:
                                                                                      1.00
```

```
00BW0762_1 ....MRVMGI MRNC.QQWWI WV.ILGFWML MVCN.VIGNL WVTVYYGVPV
00BW0768_2 ....MRVREI LRNC.QQWWT WG.SLGFWMV MIYS.VVGEL WVTVYYGVPV
00BW0874_2
           ....MRAMGT QRNC.RQWWI WG.ILGFWML MTCS.GVG.E MVTVYYGVPV
00BW1471_2 ....MRVMGI LRSC.QQWWI WG.ILGFWML MICS.VLGNL WVTVYYGVPV 00BW1616_2 ....MRVMGI QRNC.QRWWI WG.ILGFWMI Y..N.VVGNL WVTVYYGVPV
00BW1686_8 ....MRVKGI QRNW.PQWWI WG.SLGFWML MFYS.VMGNL WVTVYYGVPV
00BW1759_3 ....MRVRGI PRNW.QQWWI WG.ILGFCMI ITCK.VVGNL WVTVYYGVPV
00BW1773_2 ....MRVREI LRSY.QHWWM WS.ILGLWIL IISN.VVGNL WVTVYYGVPV
00BW1783_5 ....MRVMGI KRNC.PPWWI WG.ILGFWML MICN.VMGNL WVTVYYGVPV
00BW1795_6 ....TRVMGI RRNW.QQWWI WG.ILGFWML IICN.VMGNM WVTVYYGVPV
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00BW1811 3	MDID on Trans
00BW1811_3	* * * * * * * * * * * * * * * * * * *
00BW1880_2	
00BW1880_2 00BW1921_1	TO THE PARTY OF TH
00BW2036_1	
00BW2063_6	THE PROPERTY OF THE PROPERTY O
00BW2087_2	TO THE PARTY OF TH
00BW2127_2	TO SOLUTION OF THE PROPERTY OF
00BW2128_3	
00BW2276_7	TO THE PARTY OF TH
00BW3819_3	
00BW3842_8	TOO THE OLD THE PROPERTY OF TH
00BW3871_3	TO THE PARTY OF TH
00BW3876_9	
00BW3886_8	TON DECEMBER OF THE PROPERTY O
00BW3891_6	TOWN WILL THE
00BW3970_2	
00BW5031_1	
96BW01B21	MRVRGI LRNY.PQWWI WG.ILGFWMI MLCN.VMGNL WVTVYYGVPV
96BW0407	MRVMGI QRNC.QQWWI WG.ILGFWMI FNGM.GSW VT.VYYGVPV
96BW0502	MRVMGI LKNY.QQWWM WG.ILGFWMI FNGM.GSW VT.VYYGVPV
96BW06_J4	MRVKGI PRNW.QQWWI WG.SLGFWII CS.VMGNL WVTVYYGVPV
96BW11 06	MRVMEI MRNC.QQWWI WG.ILGFWMI CS.VMGNL WVTVYYGVPV
96BW1210	MRVRGI LRNY.LQWWI WG.ILGFWML MVCS.K.ENM WVTVYG.VPV
96BW15B03	MRVRGI LRSW OOWNI WC TIGEWAL MVCS.K.ENM WVTVYG.VPV
96BW16 26	MRVRGI LRSW.QQWWI WG.TLGFWICS.GLGNL WVTVYDGVPV
96BW17A09	
96BWM01 5	
96BWM03 ²	MRVMGI KKNW.QPWWI WG.VLGFWTL MICS.VLGNL WVTVYYGVPV
98BWMC12_2	
98BWMC13 4	
98BWMC14 a	
98BWM014_1	
98BWM018_d	
98BWMO36_a	MRVMGI QKNC.QHWWI WG.ILGFWML MICN.GK.DL WVTVYYGVPV
98BWM037 d	MRVRGI LRNC.PQWWI WG.ILGFWML MTCN.MEGNL WVTVYYGVPV
99BW3932_1	
99BW4642 4	
99BW4745_8	
99BW4754 7	TORY CHARLES
99BWMC16 8	
A2 CD 97CD	MRVMEI WRNC.PPWWI WG.ILGFWML MICN.GG.NR WVTVYYGVPV
A2_CY_94CY	THE PARTY OF THE P
A2D97KR	
A2G CD 97C	
A_BY 97BL0	
A_KE_Q23 A	
A_SE_SE659	
A_SE_SE725	
A SE SE753	
A SE SE853	
A_SE SE889	
A_SE_UGSE8	
A_UG_92UG0	
A_UG_U455_	
AC_IN_2130	
AC_RW_92RW	
AC_SE_SE94	
ACD_SE_SE8	
ACG_BE_VI1	
AD_SE_SE69	
	MRVRGI EMN.YQNLWR WG.TLLLGML MT.CSVTGRL WVTVYYGVPV

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AD_SE_SE71 ....MRVMGI QRNC.QNLLT WG.TMILGMI IICS.VAENL WVTVYYGVPV
 ADHK_NO_97 ....MKVMGT QRN.YPNWWR WG.VLILGML LICS.TTGNL WVTVYYGVPV
 ADK_CD_MAL ....MRVREI QRN.YQNWWR WG.MMLLGML MT.CSIAEDL WVTVYYGVPV
            ....MRVRGT QMSWP.HLWN GG.ILILGLV IICS.ASNNL WVTVYYGVPV
 AG_BE_VI11
AG_NG_92NG ....MRVKGT QRNWQ.HLWT WW.TLILGLV IICS.ASNNL WVTVYYGVPV
AGHU_GA_VI ....MRVMET QRN.YPRLWR WG.TIILGML MICN.AKENL WITVYYGVPV
AGU_CD_Z32 ....MKVKGI QRNC.QHLWK WG.TFILGLV IICS.AAENL WVTVYYGVPV
AJ_BW_BW21 ....MRVMET LMNCT.NLWR WG.LMIFGML MTCS.ATGNM WVTVYYGVPV
B_AU_VH_AF ....MKVKET KRN.WQRLWR WG.IMLLGML MICS.ATEKL WVTVYYGVPV
B_CN_RL42_ ....MRVTGI RKN.YQHLWR WG.TMLLGML MICN.AAENL WVTVYYGVPV
            ....MKVKEI RKN.YQHLWR WG.TMLLGML MICS.ATEKL WVTVYYGVPV
B_DE_D31_U
B_DE_HAN_U ....MKVKET RKN.YQRLWR GG.TLLLGML MISS.VAGNL WVTVYYGVPV
B_FR_HXB2_ ....MRVKEK YQHLWRWGWR WG.TMLLGML MICS.ATEKL WVTVYYGVPV
B GA OYI ....MTARGT RKN.YQRLWR WG.TMLLGML MICS.AAENL WVTVYYGVPV
B_GB_CAM1_ ....MRAKGI RKN.CQRLWR WG.TMLLGML MICS.AADKL WVTVYYGVPV
B_GB_GB8_C ....MKAKGT RKN.YQHLWK WG.IMLLGML MICS.ATEKL WVTVYYGVPV
B_GB_MANC_ ....MKVKEI RKN.YQNLWR WG.TLFLGML MICS.AEEKL WVTVYYGVPV
B_KR_WK_AF ....MRVKGI RKN.YQHWWR WG.IMLLGMW MICS.AAEKL WVTVYYGVPV
B_NL_3202A ....MKVKET RKN.YQHLWR WG.TMLLGML MICS.AAEQL WVTVYYGVPV
B_TW_TWCYS ....MRVRGT RMN.CQHLWR WG.TMLLGML MISS.AAENL WVTVYYGVPV
B_US_BC_LO ....MRVKEI RKN.YQHLWR WG.TMLFGIL MIYS.AAGNL WVTVYYGVPV
B_US_DH123 ....MRVMGI RKN.YQHLWK GG.TLLLGIL MICS.AAEQL WVTVYYGVPV
B_US_JRCSF ....MRVKGI RKN.YQHLWK GG.ILLLGTL MICS.AVEKL WVTVYYGVPV
B_US_MNCG_ ....MRVKGI RRN.YQHWWG WG.TMLLGLL MICS.ATEKL WVTVYYGVPV
B_US_P896 ...MRVKEI RKN.WQHLR. GG.ILLLGML MICSAAKEKT WVTIYYGVPV
B_US_RF_M1 ...MRVMEM RKN.CQHLWK WG.TMLLGML MICS.AAEDL WVTVYYGVPV
B_US_SF2_K ....MKVKGT RRN.YQHLWR WG.TLLLGML MICS.ATEKL WVTVYYGVPV
B_US_WEAU1 ....MRVKGI RKN.YQHLWK WG.IMLLGIL MICS.AAENL WVTVYYGVPV
B_US_WR27_ ....MRVKGI RKN.CQHLWR WG.IMLLGML MICN.ATEQL WVTVYYGVPV
B_US_YU2_M ....MRATEI RKN.YQHLWK GG.TLLLGML MICS.AAEQL WVTVYYGVPV
BF1_BR_93B ....MRVRGM QRN.WQHLGK WG.LLFLGIL IICN..AENL WVTVYYGVPV
C_BR_92BR0 ....MRVEGI QRNW.KQWWI WG.ILGFWMV MIYN.VRGNL WVTVYYGVPV
C_BW_96BW0 ....MRVMGI QRNC.QQWWI WG.ILGFWMI INGM.GSW.. VT.VYYGVPV
C_BW_96BW1 ....MRVMGI MRNC.QPWWI WG.ILGFWML MICN.VMGKS WVTVYYGVPV
C_BW_96BW1 ....MRVRGI LRNY.LQWWI WG.ILGFWML MVCS.K.ENM WVTVYG.VPV
C_BW_96BW1 ....MRVRGI LRSW.QQWWI WG.TLGFW.. .ICS.GLGNL WVTVYDGVPV
C_ET_ETH22 ....MKVMGI QRNC.QQWWI WG.ILGFWML MICN.GMGNL WVTVYYGVPV
C_IN_93IN1 ....MRVRGT LRNY.QQWWI WG.VLGFWML MICN.GGGNL WVTVYYGVPV
C_IN_93IN9 ....MRVRGT LRNY.QQWWI WG.VLGFWML MICN.VGGNL WVTVYYGVPV
C_IN_93IN9 ....MRVRGI LRNY.QQWWI WG.ILGFWML MICN.VVGNL WVTVYYGVPV
C_IN_94IN1 ....MRVRGT LRNY.QQWWI WG.VLGFWML MICN.GGKDL WVTVYYGVPV
C_IN_95IN2 ....MRVRGI LRNY.QQWWI WG.VLGFWML MICN.VVGNL WVTVYYGVPV
CRF01_AE_C ....MGVKGT QMNW.PHLWK WG.TLILGLV IICS.ASDTL WVTVYYGVPV
CRF01_AE_C ....MRVKGT RRNW.PNLWK WG.TLILGLV IICS.ASDNL WVTVYYGVPV
CRF01_AE_C ....MRVKGT QMNW.PNLWK WG.TLILGLV IMCS.ASDNL WVTVYG.VPV
           ....MRVKET QMNW.PNLWK WG.TLILGLV IICS.ASDNL WVTVYYGVPV
CRF01 AE T
           ....MRVKET QMN..PNLWK WG.TLILGLV IICS.ASDDL WVTVYYGVPV
CRF01 AE T
           ....MRVKET QINW.PNLWK WG.TLILGLV IMCS.ASNNL WVTVYYGVPV
CRF01 AE T
           ....MRVKET QMSW.PNLWK WR.TLILGLV IICS.ASDNL WVTVYYGVPV
CRF01 AE T
CRF01 AE T
           ....MRVKET QMNW.PNLWK WG.TLILGLV IICS.ASDNL WVTVYYGVPV
           ....MRVKET QMNW.PNLWK WG.TLILGLV IICS.ASENL WVTVYYGVPV
CRF01 AE T
           ....MRVMGM QRNY.PLLWK WG.TIIFWIM IICN..AEKL WVTVYYGVPV
CRF02_AG_F
           ....MRVMGI QRNY.PLFWK WG.MIIFWIM IICN..AEKL WVTVYYGVPV
CRF02 AG F
           ....MRVRGM QRNC.QNLWR WA..HDFWIL IICN.AAENL WVTVYYGVPV
CRF02 AG G
           ....MRVMGI QKNY.PLLWR WG.TNIFWIM IICN..AEQL WVTVYYGVPV
CRF02 AG N
           ....MRVMGI QKNY.PLLWR WG.MIIFWIM TICS..AGNL WVTVYYGVPV
CRF02_AG_S
           ....MRVMGI LKSC.PPFWR WGMIMLLWIL IICN..AENL WVTVYYGVPV
CRF02_AG_S
CRF03 AB R
           ....MRVKEI RKH....LWR WG.TLFLGML MICS.ATENL WVTVYYGVPV
CRF03_AB_R ....MRVKEI RKH....LWR WG.TLLLGML MICS.ATENL WVTVYYGVPV
CRF04_cpx_ ....MRVMGM QRN.YPHLWE WG.TLILGLV IICS.ASNNL WVTVYYGVPV
CRF04_cpx_ ....MRVMGI QRN.YPHLWE WG.TLILGLV IMCS.ASKDM WVTVYYGVPV
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CRF04_cpx_	MTVMGT	QRN.CPRLWT	WG.TFILWLV	IICS.ASNNL	MYTTYVCITE
CRF05_DF_B	MRVRGM	QRN.WPHLGK	WG.LLFLGII	IICS.ATDKF	MALATIGATA
CRF05_DF_B	MRVRGM	ORN. WOHLGK	WG.LLFLGTL	IICS.AADNL	MALANAGADA
CRF06_cpx_	MRVKGI	QTSWQ.HLWK	WG. TLILGLV	IICS.ASKNM	MALALACATA
CRF06_cpx_	MRVRGI	QKNWQ.HLWK	WG.TLILGLV	IICS.ASNNL	WALANA
CRF06_cpx_	MRVKGI	QMNWQ.HLWK	WG.TLILGLA	IICS.ATSNL	WVTVYYGVPV
CRF06_cpx_	MTVKGI	QRNWQ.HLWK	WG.TLILGLV	IICS.ASQNM	WVTVYYGVPA
CRF11_cpx_	MRARGT	QKNWH.DLWR	WG.LMISGML	MICN.ATDNL	WVTVYYGVPV
CRF11_cpx_	MRVKET	QRNWH.NLWR	WG.LMIFGML	MICN.AEK.M	WVTVYYGVPV
D_CD_84ZR0	MRVKGI	KRN. YQPLWK	WG.IMLLGML	MMTYSAADNL	WVTVYYGVPV
D_CD_ELI_K	MRARGI	ERN. CQNWWK	WG.IMLLGIL	MT.CSAADNL	WVTVYYGVPV
D_CD_NDK_M	MRAREK	ERN. CQNLWK	WG'. IMLLGML	MT.CSAAEDL	WVTVYYGVPI
D_UG_94UG1	MRVRET	KRN.YQHLWK	WG.TMLLGML	MI.CSVTGKS	WVTVYYGVPV
F1_BE_VI85	MRVRGM	QRN.WQHLGK	WG.LLFLGIL	IICN.AADNL	WVTVYYGVPV
F1_BR_93BR	MRVRGM	QRN.WQHLGK	WG.LLFLGTL	IICN.AAENL	WVTVYYGVPV
F1_FI_FIN9	MRVRGM	QRN.WQHLGK	WG.LLFLGML	IICK.AADDL	WVTIYYGVPV
F1_FR_MP41	MRVRVM	QRN.WQHLGK	WG.LLFLGIL	IICS.AADNL	WVTVYYGVPV
F2_CM_MP25	MRVREM	QRN.WQHLGR	WG.LLFLGIL	IICS.AADKL	WVTVYYGVPV
F2KU_BE_VI	MRVRER	RRN.WQPLGR	WG.ILFLGIF	IICN.AAEDL	WVTVYYGVPV
G_BE_DRCBL	MRVKGI	QRNWQ.HLWN	WG.ILILGLV	IICS.AEK.L	WVTVYYGVPV
G_NG_92NG0	MRVKGI	QRNWQ.HLWK	WG.TLILGLV	IICS.ASDNL	WVTVYYGVPV
G_SE_SE616	MRVTGI	QRNWHLWK	WG.TLILGLV	IICS.ASNNL	WVTVYYGVPV
H_BE_VI991	TRVMET	QRN.YPSLWR	WG.TLILGML	LICS.VVGNL	WVTVYYGVPV
H_BE_VI997	TRV	MRN.YPQWWR	GG.ILLLGML	LIYS.AAGNL	WVTVYYGVPV
H_CF_90CF0	TRVMET	QRN.YPSLWR	WG.TLILGML	LICS.AAQNL	WVTVYYGVPV
J_SE_SE702	TRVMET	QTSWL.SLWR	WG.LMIFGML	MICS.ARENL	WVTVYYGVPV
J_SE_SE788	TRVMET	QKNWQ.TLWR	GG.LMIFGML	MICK.AKEDL	WVTVYYGVPV
K_CD_EQTB1	MRAREI	QRN.WQHLGK	RG.ILFLGIL	IICS.AANNL	WVTVYYGVPV
K_CM_MP535	MRVRGM	QRN.WQTLGN	WG.ILFLGIL	IICS.NADKL	WVTVYYGVPV
N_CM_YBF30	MKVMGM	QSGWMGMKSG	WLLFYLLVSL	IKVIG.SEQH	WVTVYYGVPV
O_CM_ANT70	MKAMEK	RNKKL	WTLYLAMALI	TPCLSLR.QL	YATVYAGVPV
O_CM_MVP51	MKVMKK	NNRKS	WSLYIAMALL	IPCLSYSKQL	YATVYSGVPV
O_SN_99SE_	MTVTMKVMEQ	RNRKL	GILCIVMALI	TPCLSYN.QH	YATVYAGVPV
O_SN_99SE_	MTVTMKVMEK	RNRKL	GILCMVMALI	TPCLSHN.QH	YATVYAGVPV
U_CD83C	MRVKEI	QRN.YQHLWK	WS.LIILGMI	MICK.AIEKS	WVTVYYGVPV

	51				
00BW0762 1	WREAKTTLFC	ASDAKAYDRE	VHNVWATHAC	Mononinomi	100
00BW0768 2	WKEAKTTLFC	ASDAKAYEKE	VHNVWATHAC	ALIDEMEGET	VLENVTENFN
00BW0874 2	WKEAKTTLFC	ASDAKAYERE	VHNVWATHAC	ALIDENEORIA	VLGNVTENFN
00BW1471 2			VHNVWATHAC	ALIDEDADORM	VLENVTENFN
00BW1616 2	WKEAKTTLFC	ASDAKAYDRE	VHNVWATHAC	ALIDENEGEM	
00BW1686_8	WKEAKTTLFC	ASDAKAYEKE	VHNIWATHAC	ALIDENTOET	
00BW1759 3	WRETKTTLFC	ASDAKAYDKE	VHNVWATHAC	ALIDEMEGET	VLENVTENFN
00BW1773 2	WKEAKTTLFC	ASDAKAYEKE	VHNVWATHAC	ALIDENFORF	
00BW1783 5	WKEAKTTLFC			ALIDEMEGET	PLKNVTENFN
00BW1795_6	WREAKAPLFC			ALIDEMPREM	FLENVTONFN
00BW1811 3	WKEAKTTLFC			ALIDEMPOEM	VLKNVTENFN
00BW1859 5	WKEAKTTLFC	ASDAKAYERE		VPTDPNPQEL	VLGNVTENFN
00BW1880_2	WKEAKATLFC	ASEAKAYESE		VPTDPNPQEI	VLENVTENFN
00BW1921 1	WKEAKTTLFC			VPTDPNPQEI	VLENVTENFN
00BW2036 1	WREAKTTLFC			ALIDENFORM	ALENVTENEN
00BW2063 6	WREAKATLFC	ASDAKAYERE		ALIDENEGET	VLGNVTENFN
00BW2087 2	WKEAKTTLFC		VHNVWATHAC VHNVWATHAC	ALIDENEGET	VLENVTENFN
00BW2127 2	WKEAKAPLFC		AHMAMATHAC	ALIDENIAGEM	ELKNVTENFN
00BW2128 3	WKEAKTTLFC		AHNVWATHAC	ABIDENEGET	ELKNVTENFN
00BW2276 7	WKEAKTTLFC	ASDAKAVEKE	VHNVWATHAC	ABIDENIDOR	VLENVTENFN
00BW3819_3	WREAKATLFC	ASDAKAHEDE	VHNVWATHAC VHNVWATHAC	ALIDENEGET	VLENVTENFN
00BW3842 8	WKEAKTTLFC	ASDAKGVETE	VHNVWATHAC	ALDENEGEM	VMENVTENFN
00BW3871 3	WREAKTTLFC	ASDAKAVEDE	AIMAMAINAC	ABIDEDEGEM	VLGNVTENFN
00BW3876_9	WKEAKTTLFC	ASDAKVYEKE	VHNVWATHAC	VEIDENPOEM	LLKNVTENFN
00BW3886 8	WKEAKTTLFC			ALIDENDÓEM	VLDNVTENFN
00BW3891 6	WREAKTTLFC		VHNVWATHAC	APIDENPOET	VLGGVTENFN
00BW3970 2	WKEAKTTLFC		VHNVWATHAC	ALDEDDAGEM	VLENVTENFN
00BW5031 1	WKEAKTTLFC		VHNIWATHAC	ALIDENEGEM	FLHNVTENFN
96BW01B21	WKEAKTTLFC	ASDAKAYEKG	VHNVWATHAC	VPTDPSPQEI	
96BW0407	WKEAKATLFC	ASDARAYDRE	ATMANATUAC	VPTDPNPQEV	FLENVTENFN
96BW0502	WKEAKTTLFC	TSDAKAYETE	VHNVWATHAC	VPTDPNPQEV	ILENVTENFN
96BW06 J4	WKEAKTTLFC	ASDAKAYEKE	VHNVWATHAC	ALIDANAÖET	VLENVTENFN
96BW11_06	WREAKATLFC		AIMAMATUAC	VPTDPSPQET	VLGNVTENFN
96BW1210	WKEAKTTLFC	ASDAKAYEGE	VHNVWATHAC		VLENVTENFN
96BW15B03	_	ASYAKAYEKE	VHNVWATHAC	VPTDPNPQEL	VLGNVTENFN
96BW16 26		ASDAKAYDKE	VHNVWATHAC	VPTDPNPQEI	ELDNVTENFN
96BW17A09		ASDAKAFESE		VPTDPNPQEI	ILKNVTENFN
96BWM01 5		ASDAKAYEAE		VPTDPNPQEM	VLENVTENFN
96BWM03 2		ASDAKAYERE		VPTDPNPQEI	ELKNVTENFN
98BWMC12 2			VHNIWATHAC	VPTDPNPQEM	VLENVTENFN
98BWMC13 4	WKEAKAPLFC	ASDAKVYEKE	VHNVWATHAC	ALIDENEGEM	VLENVTENFN
98BWMC14_a	WREATTTLFC	ASDAKAYEKE	VHNVWATHAC	ALIDEMPORT	VLENVTENFN
98BWM014 1	WKEAKTTLFC	ASDAKAYDKE	VHNVWATHAC	ANIDAMAGET	VLGNVTENFN
98BWM018_d	WREAKATLFC	ASNAKAYEKE	VHNVWATHAC	VPIDPSPQEM	FLANVTENFN
98BWM036_a	WKEAKATLFC	ASDAKAYDKE	VHNVWATHAC	ALIDENDODEL	VLENVTENFN
$98BWMO37_d$	WKEAKTTLFC	ASDAKAYDKE	VHNVWATHAC	ALIDEDDIDGET	VLENVTESFN
99BW3932 1	WKEAKATLFC	ASDAKAYEKE	VHNVWATHAC	ALIDEMEGRM	VLENVTENFN
99BW4642 4	WKEAKTTLFC	ASDAKAYDKE	VHNVWATHAC	ALIDENDADORI	VLGNVTENFN
99BW4745 8	WREAKTTLFC	ASDAKAYEKE	VHNVWATHAC	ALIDENIDORI	VLENVTENFN
99BW4754_7	WREAKTTLFC	ASDAKAYDKE	VHNVWATHAC	ALIDENDADORI	VLKNVTENFN
99BWMC16_8	WREAKATLFC	ASDAKAYERE	VHNVWATHAC	ALIDENEGRI	VLENVTENFN
A2_CD_97CD	WRDADTTLFC	ASDAKAYATE	KHNVWATHAC	A L T D L D M D M D M D M D M D M D M D M D M	ALENVIENFN
A2_CY_94CY	WKDADTILFC	ASDAKAYDTE	VHNVWATHAC	ALIDENIES OF A	NLANVTEDFN
A2D97KR	WRDAETTLFC	ASDAKAVDTE	AHNVWATHAC	ANDED DATE OF L	NLENVTENFN
A2G CD 97C	WEDANTPLFC	ASDAKSVSTE	RHNVWATHAC	ALIDENFORI	NLENVTENFN
A BY 97BL0	XXDAATTLFC	ASDAKAYDKE	VHNVWATHAC	A TINENE DE LO LES	TLENVTESFN
A_KE_Q23_A	WRDADTTLFC	ASDAKAVETE	KHNVWATHAC	ALIDEDES	TTGNVTEKFD
A SE SE659	WKDAETTIFC	ASDAKAVDDD	VHNVWATHAC	ALIDENFORI	HLDNVTEKFN
A_SE_SE725	WKDAETTIFC	ASDAOAVKTD	MHNVWATHAC	ALDEN POSEM	HLENVTEESN
A SE SE753	WKDAETTLFC	ASDAKAVETE	KHNVWATHAC	A E I DENEGEP	HLKNVTEEFN
			YTHA A MATINAC	ARIDEMPÕEI	HLKNVTEKFN

3 OD ODOGO					
A_SE_SE853	WKDAETTLFC	ASDAKAYDTE	VHNVWATHAC	VPTDPNPQEL	HLANVTEEFN
A_SE_SE889	MKDWRIITEC	ASDAKAYDTE	VHNVWATHAC	VPTDPNPORT	MT. PMT PPD PPD T
A_SE_UGSE8	MYDARTITEC	ASDAKAYEKE	VHNVWATHAC	VPTDPNPOPT.	VT. E'ATT ITTETT TOAT
A_UG_92UG0	MYDWWIIPEC	ASDAKAYDTE	VHNVWATHAC	VPTDPSPORT.	KMENTOPPER
A_UG_U455_	MYDAALLPEC	ASDAKAYDAE	VHNVWATHAC	VPTDDNDOFT	DT.TAIRTIMETERS.TA
AC_IN_2130	WADAETTLEC	ASDAKAYETE	KHNVWATHAC	VPTDDMDOFT	UT EXITED DAY
AC_RW_92RW	MEDARITHE	ASDAKAYDPE	KHNVWATHAC	VPTDDDDDDTT	UT. PARTURE PROPERTY
AC_SE_SE94	MVDWVIIDEC	ASDAKAYEAE	VHNVWATHAC	VPTDPNDHRT	ATT. EPAIT PPEPARTOAT
ACD_SE_SE8	MYDARLITEC	ASDAKAYDTE	VHNVWATHAC	VPTDPNPORV	T.T.CMT/PPET\Pix
ACG_BE_VI1	MVRWKLIPEG	ASDAKAYETE	AHNVWATHAC	VPTDPSPORT	ET. WATE PRINTED AT TO A T
AD_SE_SE69	WKDAETTEFC	ASDAKAYDAE	VHNVWATHAC	VDUDDNDOET	דעבו בדבו יות צואים . דוג
AD_SE_SE71	MYDAELIPEC	ASDAKAYETE	KHNVWATHAC	VPTDPMPORT	LIT. E'NTY PITEINTEINT
ADHK_NO_97	WKEAKTILFC	ASDAKAYDTE	MHNVWATHAC	VPTDDSDOFT	TATE TO STATE OF THE STATE OF T
ADK_CD_MAL	MVEWILLIPEC	ASDAKSYETE	VHNIWATHAC	VPTDPMPORT	ET.EMUTTECTAL
AG_BE_VI11	MEDADITIPEC	ASDAKAYSTE	SHNVWATHAC	VPTDSMDORT	DI ENTERINATION
AG_NG_92NG	MEDADIPLE	ASDAKAYSTE	RHNVWATHAC	VPTDPMPORT	TACIDISTINATION TAIN
AGHU_GA_VI	WEDAKTSLEC	ASDAKSYSTE	SHNVWATHAC	VPTDDMDOFT	ATT. EPATY PPERATTERY
AGU_CD_Z32	MYDAELLIPEC	ASDAKAYDTE	KHNVWATHAC	VDTDDMDODT	CT.CMTMITTATETAT
AJ_BW_BW21	MVEHVITIEC	ASNAKAYSTE	GHNIWATHAC	VPTDPNPOET	TT. E'NTS PITTE NEEDS
B_AU_VH_AF	MYENTITIEC	ASDAKAYDKE	VHNVWATHAC	VPTDDMDOFT	T.T. TONTS OF THE PROPERTY.
B_CN_RL42_	MYEALLITIEC	ASDAKAYDTE	VHNVWATHAC	VPTDPMPORV	M.CMMPATENT
B_DE_D31_U	MYEATLITEC	ASDAKAYDKE	VHNVWATHAC	VPTDDDDDDTV	TAT DATA TO THE TOTAL TARK
B_DE_HAN_U	MVENTILITIEC	ASDAKAYDTE	VHNVWATHAC	VPTDDMDOEV	TANCINT PRIDATES
B_FR_HXB2_	MVEWILLIPLC	ASDAKAYDTE	VHNVWATHAC	VPTDDMDOPU	TACTTACTION TANKS, TVT
B_GA_OYI	MVEWILIPEC	ASDARAYATE	VHNVWATHAC	VPTDPMPOPU	VIT.CINIT/PERMITED
B_GB_CAM1_	MVEWILLIPLC	ASDAKAYDTE	VHNVWATHAC	VPTDPMDOEU	TOT ENTROPHEMENT
B_GB_GB8_C	MVENTITIEC	ASDAKAYDTE	KHNVWATHAC	VPTDPMPORV	TATACATE ATTACATES AT LONG
B_GB_MANC_	MVEULLIPLC	ASDAKAHGTE	VHNVWATHAC	VPTDPMPORT	ממעמייינוש. דגז
B_KR_WK_AF	MVEWILLIPEC	ASDAKAYDTE	VHNVWATHAC	VELDEMECTER	ET. ETATS PETERATERAT
B_NL_3202A	MVEWLLITEG	ASDAKASDTE	VHNVWATHAC	VPTDPMPOEV	AT. PARTON PARTA
B_TW_TWCYS	MVEULLIPEC	ASDAKTYDTE	VHNVWATHAC	VPTDPMPORV	TI.CINTUTE NIEWY
B_US_BC_L0	MVEWILITIEC	ASDAKAYDTE	VHNVWATHAC	TPTDPNDOET	זאים ביו שווייני אוים אווים
B_US_DH123	MVEWMITTERC	ASDAKAYDTE	VHNVWATHAC	VPTDDMDORT	T.T. ENTYPERING
B_US_JRCSF	MVELLILLFEC	ASDAKAYDTE	VHNVWATHAC	VPTDPMPORV	TIT PARTITION
B_US_MNCG_	MVEVLLLTPEC	ASDAKAYDTE	VHNVWATOAC	VPTDPMPORV	ET.VANDERSENT
B_US_P896_	MKENTITEC	ASDAKAYDTE	VHNVWATHAC	VPTDPNPOEV	TATACENTATION TO STATE AND A TABLE AND A T
B_US_RF_M1	MVPWILLITERC	ASEAKAYKTE	VHNVWAKHAC	VPTDPNPORV	דאים דאים ידי <i>ו</i> ודא אורד. T.T. ביאים
B_US_SF2_K	MKEATITIEC	ASDARAYDTE	VHNVWATHAC	VPTDPMPORW	זאים זאים ידיני צואים. דוגו
B_US_WEAU1	MYEALLITEG	ASDAKAYDTE	VHNVWATHAC	VPTDPNPOEV	זאים ואים ידינו או אים או
B_US_WR27_	WYEATTITEC	ASDAKAYDTE	VHNVWATHAC	VPTDDNDOPV	DT.ENTOTICITATION
B_US_YU2_M	MVEVILLIPLG	ASDAKAYDTE	VHNVWATHAC	VPTDPMPORV	KT. E'NT PPENTENT
BF1_BR_93B	MKEALLITIEC	ASDAKAYEKE	AHNVWATHAC	VPTDPNPOEV	VI.EMMPREMEN
C_BR_92BR0	MVEWKIITEC	ASDAKAYDAE	VHNVWATHAC	VPTDPNPOEM	זאים זאים ידינ זואים. זוא
C_BW_96BW0	MVEWVWITHG	ASDARAYDRE	VHNVWATHAC	VPTDPNPOEV	MT.EMWTTPMTEM
C_BW_96BW1	MKEAKATLFC	ASDAKAYERE	VHNVWATHAC	VPTDPMPORV	זאים זאים ידיני אוים. אוד
C_BW_96BW1	MYRAKITIPEG	ASDAKAYEGE	VHNVWATHAC	VPTDPNPORT.	VT.CMVTENTENT
C_BW_96BW1	WKEASNILLEC	ASYAKAYEKE	VHNVWATHAC	VPTDPMPORT	TATATOTO TACENT
C_ET_ETH22	WKDASPILIFC	ASDAKAYDTE	VHNVWGTFAC	VPTDPSPORT.	CIT. EPNISTED AT EDAT
C_IN_93IN1	MVEWLLIPIC	ASDAKAYERE	VHNVWATHAC	VPTDPNPORT	TATACINITATIONS
C_IN_93IN9	MYEAKILIPEC	ASDAKAYEKE	VHNVWATHAC	VPTDPMPORT	DI.CMITTENIEN
C_IN_93IN9	MVEWLITEC	ASDAKAYEKE	VHNVWATHAC	VPTDPNPOEM	TATATATATATATATATATATATATATATATATATATA
C_IN_94IN1	MVEWVIITEC	ASDAKAYGKE	VHNVWATHAC	VPTDPNPOET	ST.RM777FMFM
C_IN_95IN2	MVEWMITTEG	ASDAKAYEKE	VHNVWATHAC	VPTDPNPOET	VMENT/PENTENT
CRF01_AE_C	MKDADITIPEC	ASDANAQETE	VHNVWATHVC	VPTDPNPOET	HI-EMUTENED
CRF01_AE_C	MKDWD.I.T.P.F.C	ASDAKAHVTE	VHNVWATHAC	VPTDPNPOET	VT. באונייים איביר
CRF01_AE_C	MKDWD.L.L.P.F.G.	ASDAKAHETE	VHNIWATHAC	VPTDPNPORT	DI.EMT/TENTENT
CRF01_AE_T	MYDADITERC	ASDAKAHETE	VHNVWTTHAC	VPTDP PORT	HT. PARTITION TO AT THE AT
CRF01_AE_T	MKDWDLIFEG	ASDAKAHETE	VHNVWATHAC	VPTIDPNIDORT	דאים ואים ידי וואים.
CRF01_AE_T	MYDADITIPEC	ASDAKAHETE	VHNVWATHAC	TDTDDMDATM	TIT TINT PRIVATENT
CRF01 AE T	MKDWDT-T-PEG	ASDAKAHEAE	VHNVWATHAC	VDTIDATIONET	TIT FIRST VIEW STEELS
CRF01_AE_T	WKDADTTLFC	ASDAKAHETE	VHNVWATHAC	VPTDPNPQEI	HLENVTENFN
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CDDC1 77					
CRF01_AE_T	WRDADTTLFC	ASDAKAHETE	VHNVWATHAC	VPTDPNPQEI	HMENVTENFN
CRF02_AG_F	MKNVE.L.L.P.E.C.	ASDAKAYDAE	VHNVWATHAC	VPTDPNPORT	HI.KNOTEKEN
CRF02_AG_F	WRDAETTLFC	ASDAKAYDVE	VHNVWATHAC	VPTDPNPQEI	HLKNVTEKFN
CRF02_AG_G	MKTADTTLFC	ASDAKAYDTE	VHNVWATHAC	VPTDPNPORT	HT.ENT/TTERENT
CRF02_AG_N	MKTAETTLFC	ASDAKAYDTE	VHNVWATHAC	VPTDPNPORT	HT.EMWTEVENT
CRF02_AG_S	MKDWELLPEG	ASDAKAYDTE	VHNVWATHAC	VPTDPNPORT	HI.GMUTTEDEN
CRF02_AG_S	KKDWELITEC	ASDAKAYETE	VHNVWATHAC	VPTDPSPORM	HT.ENT/TENENT
CRF03_AB_R	WKEATTILFC	ASDAKAYSKE	VHNVWATYAC	VPTDPSPORT	DIKNUTENEN
CRF03_AB_R	WKEATTTLFC	ASDAKAYSKE	VHNVWATYAC	VPTDPSPQEI	PLENVTENFN
CRF04_cpx_	WRDAETTLFC	ASEAKAYEKE	VHNIWATHAC	VPTDPNPOEV	AT. TATY/TIPATENT
CRF04_cpx_	MKDWELKEXC	ASDAKAYDKE	IHNIWATHAC	VPTDPNPOET.	ואים ואים יויעדו אידי דע
CRF04_cpx_	WRDAETSPFC	ASDAKAYDKE	VHNIWATHAC	VPTDPNPOET	FLKNVTEDEN
CRF05_DF_B	MKRWKLIPEC	ASDAKGYDKE	VHNVWATHAC	VPTDPMPOEW	MANALEMENT
CRF05_DF_B	WKEANTTLFC	ASDAKGYEKE	AHNVWATHAC	VPTDPNPOET.	AT ENVITENTEN
CRF06_cpx_	WEDADTILFC	ASDAKAYSPD	KHNVWATHAC	VPTDPNPOET	SLKNVTENEN
CRF06_cpx_	WEDADTILFC	ASDAKAYSAE	KHNVWATHAC	VPTDPNPOET	DI.KNIT/TENENT
CRF06_cpx_	WEDADTILFC	ASDAKAYSAE	KHNVWATHAC	VPTDPNPORT	DI.EMWTENTEN
CRF06_cpx_	WEDADTILFC	ASDAKAYSAE	KHNVWATHAC	VPTDPNPORT	KT.EMVZTENTENT
CRF11_cpx_	MKDANTTLFC	ASDAQAYSPE	KHNVWATHYC	VPTDPNPORT	TIGNVTENEN
CRF11_cpx_	MKDADTILFC	ASDARTYSTE	KHNVWATHSC	VPTDPNPREL	STERVITENEN
D_CD_84ZR0	WKEATTTLFC	ASDAKSYKTE	AHNIWATHAC	VPTDPNPOET	ET.KNIVITENTENT
D_CD_ELI_K	WKEATTTLFC	ASDAKSYETE	AHNIWATHAC	VPTDPNPOET	ALEMMTEMEN
D_CD_NDK_M	WKEATTTLFC	ASDAKAYKKE	AHNIWATHAC	VPTDPMPORT	ET.EXIVERSIENT
D_UG_94UG1	WKEATTTLFC	ASDAKAYKAE	AHNIWATHAC	VPTDPNPORT	KILEMVTENEN
F1_BE_VI85	WKEATITLFC	ASDAKAYERE	AHNVWATHAC	VPTDPNPOEV	FIKNVTENED
F1_BR_93BR	WKEATTTLFC	ASDAKSYEKE	AHNVWATHAC	VPTDPNPOEV	MARMWEDEN
F1_FI_FIN9	WKEANTTLFC	ASDAKSYEKE	VHNVWATHAC	VPTDPNPOEV	ALM WTENEN
F1_FR_MP41	WKEATTTLFC	ASDAKGYERE	VHNVWATHAC	VPTDPNPOET	WIKNIZTENED
F2_CM_MP25	WKEATTILFC	ASDAKAYERE	VHNVWATYAC	VPTDPSPORT	VIGNUSEREN
F2KU_BE_VI	WKEANTTLFC	ASDAKPYDTE	VHNVWVTHAC	VPTDPNPOEV	FLONVIENEN
G_BE_DRCBL	WEDANAPLFC	ASDAKAHSTE	SHNIWATHAC	VPTDPSPORT	MMDMV//review
G_NG_92NG0	WEDADTPLFC	ASDAKSYSSE	KHNVWATHAC	VPTDPNPORT	ΔΤΕΝΙΤΡΕΝΙΕΝΙ
G_SE_SE616	WEDADTTLFC	ASDAKSYSAE	SHNVWATHAC	VPTDPNPOET	TMENVTEVEN
H_BE_VI991	WKEAKTTLFC	ASDAKAYDTE	RHNVWATHAC	VPTDPNPOEM	VIENVTETEN
H_BE_VI997	WKEAKTTLFC	ASDAKAYEPE	KHNVWATHAC	VPTDPSPOEM	VI.ANIVERIEN
H_CF_90CF0	WKEAKTTLFC	ASDAKAYETE	KHNVWATHAC	VPTDPNPOEM	VMENVTEGEN
J_SE_SE702	WRDAKTTLFC	ASDAKAYSTE	KHNVWATHAC	VPTDPNPOEM	SLDNVTENEN
J_SE_SE788	WKDAKTTLFC	ASDAKAYSTE	KHNVWATHAC	VPTDPSPOEM	MIDMUTENTN
K_CD_EQTB1	WKEATTTLFC	ASDAKAYETE	VHNVWATHAC	VPTDPNPOEV	VLENVTENEN
K_CM_MP535	WKEATPTLFC	ASDAKAYEKE	VHNVWATHAC	VPTDPNPOEV	EMENUTENEN
N_CM_YBF30	WREAETTLFC	ASDAKAHSTE	AHNIWATOAC	VPTDPNPOEV	LIDMUTEKEM
O_CM_ANT70	WEDATPVLFC	ASDANLTSTE	KHNIWASOAC	VPTDPTPVEV	אים ממיניע זאים. זכו
O_CM_MVP51	WEEAAPVLFC	ASDANLTSTE	QHNIWASOAC	VPTDPNPHEF	DIGMOTONED
o_sn_99se_	WEEATPVLFC	ASDANLTSTE	QHNIWASOAC	VPTDPSPYEY	PLTKVTTONEN
O_SN_99SE_	WEEATPVLFC	ASDVNLTSTE	QHNIWASOAC	VPTDPSPYEY	DT.KNIVTIONIEM
U_CD83C	WKDAETTLFC	ASDAKAYEKE	SHNVWATHAC	VPTDPSPOEL	VLGNVTENFN
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	101				
00BW0762 1	MWKNYMVDOM	HEDIISLWDO	STANDCVKTATO	LCVTLNCINV	150
00BW0768 2	MWKNDMVDOM	HEDVISLWDO	SI KPCVKI TP	LCITLNCTSI	TN
00BW0874 2	MWKNDMVDOM	HEDITSLWDO	SIKPCVKI.TD	LCVTLNCTNY	NG
00BW1471 2	MWKNDMVDOM	HEDIISIWDO	SI-KPCVKI-TP	LCVTLYCTNV	MN
00BW1616_2	MWKNDMVNOM	HEDITSIWDO	SIKPCVPI.TP	LCVTLICINV	TKR
00BW1686 8	MWKNDVVDOM	HEDITSLWDO	STRECARTLE	LCVTLQCSNV	TT
00BW1759 3	MWKNDMVDOM	HEDITSIWDO	STWDC/WITE	LCVTLKCSNV	S
00BW1773 2	MWKNDMVDOM	HEDITSI,WDQ	SINPCVKIIP	LCVTLECEDA	N
00BW1783 5	MWKNDMVDOM	HEDITSIMDO	STICECARTIE	LCVTLTCSNL	N
00BW1795 6	MWKNDMVEOM	HEDITSI,WDQ	STYLCAKTIL	LCVTLTCSNL	NI
00BW1811 3	MWKNDMVDOM	HEDITSI WOR	STIKECAKTLE	LCVTLDCINA	T1
00BW1859 5	MMKNDMVDOM	HEDITSIMO	STANCART MD	PCALFUCINA	TN
00BW1880_2	MWENGMVDOM	HEDITSIMDO	STYPCAKTIB	LCVTLTCKDY	N
00BW1921_1	WMKMDWMMDOW	HEDITCIMDO	STYNCANTED	LCVTLNCSNA	KA
00BW2036 1	MMKMDMMDOM	HEDITSIMDO	STYLCAYTT	LCVTLKCSDA	K
00BW2063 6	MMENDWARON	HEDITSTMDO	SUKPCVKLTP	LCVTLNCTNA	NV
00BW2087 2	MMKMDWMMDOW	HEDITCI WDD	SUKPCVKUTP	LCVTLKCRNA	NN
00BW2127 2	MMKMDWAEOW	TEDITOUMDE	STYLCAKTLE	LCVTLNCVTV	NCT
00BW2128_3	MMKMDWMDOW	TEDITCIMDE	STYLCAKTAL	LCVTLRCSNA	GSG
00BW2126_3	MMKMDWMDOW	TEDITOL WDE	SEKPCVKETP	LCVTLSCNAT	N
00BW3819 3	MMKMDWMMOW	TEDITORNE	SIKPCVKLTP	LCVTLNCSIV	N
00BW3842 8	MMEMDWADOM	HEDITOTADE	STKECAKTLO	LCVTLECSNV	N
00BW3842_8	MMEMDIALDOM	HEDVISTADE	STKECAKTLE	LCVTLNCTNY	NG
00BW3871_3	MMEMDWALDOW	HEDITSTANDO	STKLCAKTLE	LCVTLMCSNV	T
00BW3886 8	MMEMDIALDOM	HEDITZEMDŐ	SPKPCVKLTP	LCVTLKCTDA	T
00BW38891 6	MMANDMADOM	HEDVISTMDE	SLKPCVKLTP	LCVTLKCGNV	NN
00BW3970 2	MMKMDMADOM	HEDIISTMDÖ	SLKPCVKLTP	LCVTLKCVSI	N
	MMKMDMADOM	HEDIISLWDE	SLKPCVKLTP	LCVTLECKNV	TTN
00BW5031_1	MMKMDMADOW	HEDIISTADO	SLKPCVKLTP	LCVTLNCSAA	NN
96BW01B21	MMKNDWADOW	HEDIISLWDQ	SLKPCVKLTP	LCVTLKCSTY	N
96BW0407	MMKNDMVEQM	HEDIISLWDQ	SLKPCVKLTP	LCVTLNCTKV	NGT
96BW0502	MMKNDMVDQM	HEDIISLWDQ	SLKPCVKLTP	LCVTLKCRNV	N
96BW06_J4	MWKNDMVDQM	HEDIISLWDQ	SLKPCVKLTS	LCVTLHCSNV	N
96BW11_06	MMENDMANOW	HEDIISLWDQ	SLKPCVKLTP	LCVTLNCT	
96BW1210	MWKNDMVDQM	HEDIISLWDE	SLKPCVKLTP	LCVTLNCSNN	VTR
96BW15B03	MMKNDMVDQM	HEDIISLWDQ	SLKPCVKLTP	LCVTLKCTNY	ST
96BW16_26	MMKNDWADÓW	HEDIISLWDQ	SLKPCVKLTP	LCVTLDCTNV	T
96BW17A09	MWKNDMVDQM	HEDIISLRDQ	SLKPCVKLTP	LCVTLNCTNA	TN
96BWM01_5	MWENDMVDQM	HEDIISLWDQ	SLKPCVKLTP	LCVTLNCKNV	TS
96BWM03_2	MWKNDMADQM	HEDIISLWDQ	SLKPCVKLTP	LCVTLNCTEA	K7/
98BWMC12_2	MWKNDMVDQM	HEDIIRLWDQ	SLKPCVKMTP	LCVTLNCANE	NAS
98BWMC13_4	MMKNDWADÓW	HEDIISLWDQ	SLKPCVKLTP	LCVTLKCSNV	TV
98BWMC14_a	MMKNDWAEÓW	HEDIISLWDQ	SLKPCVKLTP	LCVTLDCTNV	Т.
98BWM014_1	MMENDWADÓW	HQDIISLWDE	SLKPCVKLTP	LCVTLNCRNA	MT.M
98BWM018_d	MOGAWGWYMM	HEDIISLWDQ	SLKPCVKLTP	LCVTLTCTNA	TKNWTM
98BWM036_a	MMKNDMADQM	HEDVISIMDO	SLKPCVKLTP	LCVTLNCSNV	N.
98BWM037_d	MKDNDWADÓW	HEDIINLWDQ	SLKPCVRLTP	LCVTLNCKDA	SVN
99BW3932_1	MMKNDWADÓW	HEDMIRLWDQ	SLKPCVKLTP	LCVTLKCREV	N
99BW4642_4	MMXMDMADÓW	HEDIISLWDQ	SLKPCVKLTP	LCVTLKCTNV	N
99BW4745_8	MMKNDWADÓW	HEDVISLWDQ	SLKPCVKLTP	LCVTLICSNN	T
99BW4754_7	MMKMDWADÖW	HEDIISTADO	SLKPCVKLTP	LCVTLNCNKV	TV
99BWMC16_8	MMKNDWADÓW	HEDIISLWDQ	SLKPCVKLTP	LCVTLNCVNV	TKNWTK
A2_CD_97CD	WMKNNWARÓW	HADIISLWDQ	SLKPCVKLTP	LCVTLNCSNA	איזייזיזיי
A2_CY_94CY	MAKMMMARÓW	GEDITSTMDO	SLKPCVKLTP	LCVILNCSNA	NTSTH
A2D97KR	MMKNGWAEÓW	HEDIISLWDQ	SLKPCVKLTP	LCVTLNCSRV	KNTTS
A2G_CD_97C	MWKNDMVEQM	HVDIISLWDO	SLKPCVKLTP	FCVTLNCTNA	TPDNA
A_BY_97BL0	MXKNNXVEQM	QTDIISL.DQ	SLKPCVKLTP	LCVTINCARD	MSTDS
A_KE_Q23_A	MWKNNMVEQM	HTDIISLWDO	SLKPCVKLTP	LCVTLHCTNV	TOTAL
A_SE_SE659	MWKNNMVEQM	HTDIISLWDO	SLKPCVKT.TP	LCVTLNCTNV	TO 4
A_SE_SE725	MWKNSMVEQM	HTDIISLWDE	SLKPCVKT.TP	LCVTLNCTNA	• • • • • • • • •
A_SE_SE753	MWKNYMVEQM	HTDIISLWDO	SLEPCVKT.TD	LCVTLECHYN	Trivi
				ATTECUTIA	TTA

A_SE_SESS3 A_SE_SESS3 A_SE_UGSS8		
A JUG J0455 A J058 J058 A J040 J040 A J058 J058 J058 J058 J058 J058 A J058 J058 J058 J058 J058 J058 A J058 J058 J058 J058 J058 J058 J058 J058		
A UG 92106 A UG US 55 AUG 115 AUG 145 AUG 155 AUG 187 AUG 155 AUG 187 AUG 155 AUG 187 AUG 156 AUG 187 AUG 156 AUG 187 AUG 156		
A UG_U455_ AC_IM_2130 MWKNNWLOM_HEDIISIMD0 SIKPCVKLTP LCYTLOCENN ITN. AC_RM_92RW MWKNNWLOM_HEDIISIMD0 SIKPCVKLTP LCYTLOCENN ITN. AC_SE_SE94 IWRNYWLOM_HEDIISIMD0 SIKPCVKLTP LCYTLOCENN ITN. AC_SE_SE94 IWRNYWLOM_HEDIISIMD0 SIKPCVKLTP LCYTLOCENN ITN. AC_SE_SE95 MWKNNWLOM_HEDIISIMD0 SIKPCVKLTP LCYTLOCENN ITN. AC_SE_SE96 MWKNNWLOM_HEDIISIMD0 SIKPCVKLTP LCYTLOCENN ITN. AD_SE_SE96 MWKNNWLOM_HEDIISIMD0 SIKPCVKLTP LCYTLOCENN ITN. AD_SE_SE97 MWKNNWLOM_HEDIISIMD0 SIKPCVKLTP LCYTLOCENN ITN. AD_SE_SE97 MWKNNWLOM_HEDIISIMD0 SIKPCVKLTP LCYTLOCENN ITN. AD_K_CD_MAL AD_K_D97 MWKNNWLOM_HEDIISIMD0 SIKPCVKLTP LCYTLOCENN ITN. AG_BE_SE91 MWKNNWLOM_HEDIISIMD0 SIKPCVKLTP LCYTLOCENN ITN. AG_U_C_32 MWKNNWLOM_HEDIISIMD0 SIKPCVKLTP LCYTLOCENN ITN. B_O_D_HAM_U B_O_D_HAM_U B_O_D_HAM_U MWKNDWLOM_HEDIISIMD0 SIKPCVKLTP LCYTLOCENN ITN. B_O_D_HAM_U B_O_D_HAM_U B_O_D_HAM_U B_O_D_HAM_U MWKNDWLOM_HEDIISIMD0 SIKPCVKLTP LCYTLOCEND ITN. B_O_D_HAM_U B_O_D_		
AC IN 2130 MWKNSMVEQM HTDIISIMOQ SIKPCVKITP LCVTLNCENV NG AC SE SE94 IWKNYMVEQM HTDIISIMOQ SIKPCVKITP LCVTLNCENV TINNIN SIKPCVKITP LCVTLNCENV TINNIN ACD SE SE69 WKNNMVEQM HTDIISIMOQ SIKPCVKITP LCVTLNCENV TINNIN TINNIN ACG BE VII MKNNMVEQM HTDIISIMOQ SIKPCVKITP LCVTLNCENV TINNIN AD SE SE69 WKNNMVEQM HTDIISIMOQ SIKPCVKITP LCVTLNCENV TINNIN TINNIN AD SE SE69 WKNNMVEQM HTDIISIMOQ SIKPCVKITP LCVTLNCENV TINNIN TINNIN AD SE SE69 WKNNMVEQM HTDIISIMOQ SIKPCVKITP LCVTLNCENV TINNIN AD SE SE69 WKNNMVEQM HTDIISIMOQ SIKPCVKITP LCVTLNCENV TINNIN TINNIN AD SE SE69 WKNNMVEQM HTDIISIMOQ SIKPCVKITP LCVTLNCENV TINNIN TINNIN AD SE SECONOMIC TO SERVE VKITP LCVTLNCENV TINNIN TINNIN AD SERVE VKITP LCVTLNCENV TINNIN AD SERVE VKITP LCVTLNCENV TINNIN		
AC_SE_SS94 MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCENN TNVNN AC_SE_SS94 MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCEND TV AC_SE_SS95 MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCENV TIT. AD_SE_SS95 MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCENV TAIN. AD_SE_SS97 AD_SE_SS97 MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCENV TAIN. AD_SE_SS97 MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCENV NGTANG. AG_SE_VII1 MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCEND NTSNN. AG_SE_VII1 MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCEND NTSNN. AG_SE_VII1 MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCEND NTSNN. B_FR_HEND_ MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCEND NTSNN. B_GR_ANG_ B_GR_ANG_ B_GR_ANG_ MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCEND NTSNN. B_GR_ANG_ B_GR_ANG_ B_KR_AF MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCEND NTSNN. B_US_BC_LO B_US_BC_LO B_US_BC_LO MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCEND NTSNN. AMUNINWUGOM HTDIISI	A_UG_U455	MWKNNMVDOM HEDIISLWDO SIKDGURG TO LCVTLDCSYN ITN
AC_SE_SS94 MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCENN TNVNN AC_SE_SS94 MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCEND TV AC_SE_SS95 MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCENV TIT. AD_SE_SS95 MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCENV TAIN. AD_SE_SS97 AD_SE_SS97 MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCENV TAIN. AD_SE_SS97 MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCENV NGTANG. AG_SE_VII1 MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCEND NTSNN. AG_SE_VII1 MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCEND NTSNN. AG_SE_VII1 MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCEND NTSNN. B_FR_HEND_ MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCEND NTSNN. B_GR_ANG_ B_GR_ANG_ B_GR_ANG_ MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCEND NTSNN. B_GR_ANG_ B_GR_ANG_ B_KR_AF MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCEND NTSNN. B_US_BC_LO B_US_BC_LO B_US_BC_LO MWKNNWUGOM HTDIISIMDQ SIKPCVKLTP LCVTINCEND NTSNN. AMUNINWUGOM HTDIISI		
AC SE SE94 AC D. SE SE86 AC D. SE SE87 AC D.	AC_RW_92RV	
ACG SE SE8 MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCEDA TV. ACG SE VII MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCTON TAIN. AD SE SE71 MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCTON TAIN. AD SE SE71 MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCTON TAIN. ADHK, NO. 97 MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCTON TAIN. ADHK, NO. 97 ADK CD MAL AG BE VIII MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCTON TOWN. AGN CD MAL AG BE VIII MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCTON TOWN. AG BE VIII MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCTON NOTANG. AGU CD Z32 MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCTON TYSNT. B DA J W MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCTON TYSNT. B DA J W MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCTON TYSNT. B DE HAN U MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCTON K. B DE HAN U MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCTON K. B DE HAN U MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCTON K. B DE HAN U MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCTON K. B DE HAN U MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCTON K. B DE HAN U MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCTON K. B DE HAN U MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCTON K. B D S LOS DA SA MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCTON K. B D S LOS DA SA MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCTON K. B D S LOS DA SA MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCTON K. B D S LOS DA SA MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCTON K. B D S LOS DA SA MWKNNWLOM HTDIISLAND SICPCVKLTP LCVTINCTON K. MWKNNWLOM HTDIISLAND SICPCVKLTP LC	AC SE SE94	
AG BE VII		MWKNNMVEOM HUDIIGINDO GLODONIO LCVTLNCRDA TV
AD_SE_SE59 MMKNNMYEQM HTDIISLWD SLKPCVLTP LCVTLNCSNV TAIN. AD_SE_SE71 MMKNNMYEQM HTDIISLWD SLKPCVLTP LCVTLNCTNV NKIN. AD_SE_SE71 MMKNNMYEQM HEDIISLWD SLKPCVLTP LCVTLNCTDV N MMKNNMYEQM HEDIISLWD SLKPCVLTP LCVTLNCTDV NGTAVNG.TN AG_BE_VIII MKNNMYEQM HEDIISLWD SLKPCVLTP LCVTLNCTTNV NGTAVNG.TN AG_BE_VIII MKNNMYEQM HEDIISLWD SLKPCVLTP LCVTLNCTTNV NGTAVNG.TN AGU_CD_Z32 MMKNNMYEQM HEDIISLWD SLKPCVLTP LCVTLNCTNV NGTAVNG.TN MKNNMYEQM HEDIISLWD SLKPCVLTP LCVTLNCTNV NGTAVNG.TN AGU_CD_Z32 MMKNNMYEQM HEDIISLWD SLKPCVLTP LCVTLNCTNV NGTAVNG.TN MKNNMYEQM HEDIISLWD SLKPCVLTP LCVTLNCTNV NGTAVNG.TN MKNNMYEQM HEDIISLWD SLKPCVLTP LCVTLNCTNV NGTAVNG.TN B_AU_VH_AF MKNNMYEQM HEDIISLWD SLKPCVLTP LCVTLNCTNL TV. B_CN_RL42 MMKNNMYEQM HEDIISLWD SLKPCVLTP LCVTLNCTNL K. B_DE_DIII U MKNNMYEQM HEDIISLWD SLKPCVKLTP LCVTLNCTDL K. B_DE_DII U MKNNMYEQM HEDIISLWD SLKPCVKLTP LCVTLNCTDL K. B_GB_GA_OVI MKNNMYEQM HEDIISLWD SLKPCVKLTP LCVTLNCTDL K. B_GB_GB_CMM MKNNMYEQM HEDIISLWD SLKPCVKLTP LCVTLNCTDL N. B_GR_KM_AF MKNNMYEQM HEDIISLWD SLKPCVKLTP LCVTLNCTDL N. B_WR_AF MKNNMYEQM HEDIISLWD SLKPCVKLTP LCVTLNCTDL N. B_WR_AF MKNNMYEQM HEDIISLWD SLKPCVKLTP LCVTLNCTDL K. B_US_BC_L0 MWKNNMYEQM HEDIISLWD SLKPCVKLTP LCVTLNCT		
AD SE SE71		
ABHK NO 97 ADK CD MAL AG BE_VIII MWKNNMVEQM HEDIISLWDG SLKPCVKLTP LCVTLKCTBV NGTAVNG.TN MWKNNMVEQM HEDIISLWDG SLKPCVKLTP LCVTLKCTBV NGTAVNG.TN AG NG 92NG MWKNNMVEQM HEDIISLWDG SLKPCVKLTP LCVTLKCTBV NGTAVN.TV AGU CD Z32 MWKNNMVEQM HEDIISLWDG SLKPCVKLTP LCVTLKCTBV NGTAVN.TV AGU CD Z32 MWKNNMVEQM HEDIISLWDG SLKPCVKLTP LCVTLKCTBV NGTAVN.TV AGU CD Z32 MWKNNMVEQM HEDIISLWDG SLKPCVKLTP LCVTLKCTBV NGTAVN.TV MWKNNMVEQM HEDIISLWDG SLKPCVKLTP LCVTLKCTBV NGTAVN.TV MWKNNMVEQM HEDIISLWDG SLKPCVKLTP LCVTLKCTBL TV E DAD 11 U NWKNNMVEQM HEDIISLWDG SLKPCVKLTP LCVTLKCTBL TV MWKNNMVEQM HEDIISLWDG SLKPCVKLTP LCVTLNCTDL TV MWKNNMVEQM HEDIISLWDG SLKPCVKLTP LCVT		
AG BE VIII AG BE VIII AG BE VIII AG BE VIII AG MC 92NG MKKNNMVEQM HEDIISLWDE SIKPCVKLTP LCVTLNCTNV NGTAVNG TN MCKNNMVEQM HEDIISLWDE SIKPCVKLTP LCVTLNCTNV NCTNN VT MCKNNMVEQM HEDIISLWDE SIKPCVKLTP LCVTLNCTNL K MCKNNMVEQM HEDIISLWDE SIKPCVKLTP LCVTLNCTNL K MCKNNMVEQM HEDIISLWDE SIKPCVKLTP LCVTLNCTNL K MCKNNMVEQM HEDIISLWDE SIKPCVKLTP LCVTLNCTDL R MCKNNMVEQM HEDIISLWDE SIKPCVKLTP LCVTLNCTDL R MCKNNMVEQM HEDIISLWDE SIKPCVKLTP LCVTLNCTDL R MCKNNMVEQM HEDIISLWDE SIKPCVKLTP LCVTLNCTDL G MCKNNMVEQM HEDIISLWDE SIKPCVKLTP LCVTLNCTDL G MCKNNMVEQM HEDIISLWDE SIKPCVKLTP LCVTLNCTDL G MCKNNMVEQM HEDIISLWDE SIKPCVKLTP LCVTLNCTDL C MCKNNMVEQM HEDIISLWDE SIKPCVKLTP LCVTLNCTNV TV MCKNNMVEQM HEDIISLWDE SIKPCVKLTP LCVTLNCTNV TV M		
AG BE VIII AG MG 92NG AGHU GA VI MWKNNMVEQM HEDIISLWDE SLKPCVKLTP LCVTLTCTNV NCTNN. VT MWKNNMVEQM HEDIISLWDE SLKPCVKLTP LCVTLTCTNV NCTNN. VT AGU CD 232 MWKNNMVEQM HEDIISLWDE SLKPCVKLTP LCVTLTCTNV NCTNN. VT B AU VH AF B CN_RL42 B DE D31_U MWKNNMVEQM HEDIISLWDE SLKPCVKLTP LCVTLTCTNV NCTNN. VT MWKNNMVEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL R. B DE HAN U MWKNNMVEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B DE HAN U MWKNNMVEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B GB GB GA OYI MWKNNMVEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B GB GB GA OYI MWKNNNVEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B GB GB GA OYI MWKNNNVEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B GB GB GB CM MKNNNVEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B GB MANC B C MWKNNNVEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B C LOW MKNNNVEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B C LOW DH123 MWKNNNVEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B US DR123 MWKNNNVEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B US DR25 MWKNNNVEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B US P896 MWKNNNVEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B US P896 MWKNNNVEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B US SR2 K MWKNNNVEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL R. B US WKRNINVEQM HEDIISLWDE SLKPCVKLTP LCVTL		
AGHG 92MG AGHU GA VI AGHU GA VI AGHU GA VI AGU CD 232 AJ BW BW21 B AU VA AF B CN RL42 B DE D313U MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLECSKI N. MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLECSKI N. B CN RL42 B DE D31AU MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTNA TVENT. B CN RL42 B DE D31AU MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTNA TVENT. B CN RL42 B DE D31AU MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTNA TVENT. B CN RL42 MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTNA K. B CN RL82 MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B GB GAOYL MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B GB CAM1 MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B GB GB GB C MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B GB GB GB C MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B CN RW AF MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL R. B KR WK AF MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL GR. B KR WK AF MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL GR. B LUS BC LO MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL GR. B US BC LO MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL M. B US BC LO MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B US BC LO MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B US BC LO MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B US BC LO MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B US BC LO MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B US BC LO MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B US BC LO MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B US WEZ MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL K. B US WEZ MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL G. B US BC LO MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL G. B US WEZ MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL G. C BU 96BW1 MWKNNWYEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTNA NYTN. C EN 96BW1 MWKNDWN		
AGHU GA VI AGU CD Z32 AJ EW BW21 AJ EW BW21 B AU VH AF B CN RL42 MWKNINWYEOM HEDIISLWDO SLKPCVKLTP LCVTLNCTDL TVSMT. B AU VH AF B CN RL42 MWKNINWYEOM HEDIISLWDO SLKPCVKLTP LCVTLNCTDL TVSMT. B DE D31 U MKNINWYEOM HEDIISLWDO SLKPCVKLTP LCVTLNCTDL K. B DB D31 U MKNINWYEOM HEDIISLWDO SLKPCVKLTP LCVTLNCTDL K. B DB D31 U MKNINWYEOM HEDIISLWDO SLKPCVKLTP LCVTLNCTDL K. B GB CANL MWKNINWYEOM HEDIISLWDO SLKPCVKLTP LCVTLNCTDL K. B GB CANL MWKNINWYEOM HEDIISLWDO SLKPCVKLTP LCVTLNCTDL K. B GB CANL MKNINWYEOM HEDIISLWDO SLKPCVKLTP LCVTLNCTDL K. B C W MKNINWYEOM HEDIISLWDO SLKPCVKLTP LCVTLNCTDL R. B C W MKNINWYEOM HEDIISLWDO SLKPCVKLTP LCVTLNCTDL R. B C W MKNINWYEOM HEDIISLWDO SLKPCVKLTP LCVTLNCTDL R. B C W MKNINWYEOM HEDIISLWDO SLKPCVKLTP LCVTLNCTDL K. B C W MKNINWYEOM HEDIISLWDO SLKPCVKLTP LCVTLNCTDL K. B US MRCG MWKNINWYEOM HEDIISLWDO SLKPCVKLTP LCVTLNCTDL K. B US MRCS MWKNINWYEOM HEDIISLWDO SLKPCVKLTP LCVTLNCTDL G. B US MRCS MWKNINWYEOM HEDIISLWDO SLKPCVKLTP LCVTLNCTDL TVST MWKNINWYEOM HEDIISLWDO SLKPCVKLTP LCVTLNCTNV TV. C B 958M1 MWKNINWYEOM HEDIISLWD		
AGU_CD_Z32 MMKNIMVEQM HEDVISIWDO SIKPCVKLTP LCVTLNCTNA TVSNT B_UV_H_AF B_CN_RL42 MWKNIMVEQM HEDIISIWDO SIKPCVKLTP LCVTLNCTNA TVSNT B_CB_P31_U MWKNIMVEQM HEDIISIWDO SIKPCVKLTP LCVTLNCTNA TVSNT B_CB_P31_U MWKNIMVEQM HEDIISIWDO SIKPCVKLTP LCVTLNCTDL K MWKNIMVEQM HEDIISIWDO SIKPCVKLTP LCVTLNCTDL K B_GB_QAN_U MWKNIMVEQM HEDIISIWDO SIKPCVKLTP LCVTLNCTDL K B_GB_QAN_U MWKNIMVEQM HEDIISIWDO SIKPCVKLTP LCVTLNCTDL K B_GB_QAN_U MWKNIMVEQM HEDIISIWDO SIKPCVKLTP LCVTLNCTDL K B_GB_GAN_U MWKNIMVEQM HEDIISIWDO SIKPCVKLTP LCVTLNCTDL K B_GB_GAN_U MWKNIMVEQM HEDIISIWDO SIKPCVKLTP LCVTLNCTDL R MWKNIMVEQM HEDIISIWDO SIKPCVKLTP LCVTLNCTDL MITTIN MWKNIMVEQM HEDIISIWDO SIKPCVKLTP LCVTLNCTDL MITTIN MWKNIMVEQM HEDIISIWDO SIKPCVKLTP LCVTLNCTDL K B_US_BC_LO MWKNIMVEQM HEDIISIWDO SIKPCVKLTP LCVTLNCTDL K B_US_BC_SAM_U MWKNIMVEQM HEDIISIWDO SIKPCVKLTP LCVTLNCTDL K B_US_P886_ MWKNIMVEQM HEDIISIWDO SIKPCVKLTP LCVTLNCTDL K B_US_RF_M1 MWKNIMVEQM HEDIISIWDO SIKPCVKLTP LCVTLNCTDL K B_US_RF_M1 MWKNIMVEQM HEDIISIWDO SIKPCVKLTP LCVTLNCTDL R B_US_RF_M1 MWKNIMVEQM HEDIISIWDO SIKPCVKLTP LCVTLNCTDL G MWKNIMVEQM HEDIISIWDO SIKPCVKLTP LCVTLNCTNL K MWKNIMVEQM HEDIISIWDO SIKPCVKLTP LCVTLNCTNL K MWKNIMVEQM HEDIISIWDO SIKPCVKLTP LCVTLNCTNL K		
B_AU_VH_AF B_CN_R142 B_DE_D31_U MWKNNMVEQM_HEDIISLWDQ B_DE_D31_U MWKNNMVEQM_HEDIISLWDQ B_DE_D31_U MWKNNMVEQM_HEDIISLWDQ B_FR_HXB2 B_GA_OYI MWKNNMVEQM_HEDIISLWDQ B_GB_CAM1 B_GB_CAM1 B_GB_GBB_C B_GB_GBB_C B_GB_GBB_C B_GB_MANC B_WKNNMVEQM_HEDIISLWDQ B_KR_WK_AF B_NL_3202A B_TW_TWCYS B_US_BC_L0 B_US_B		
B AU VH AF		
B_CN_RL42 MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL K. B_DE_D31_U MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL K. B_GB_CAM1 MWKNNMVEQM GEDIISLWDQ SLKPCVKLTP LCVTLNCTDL K. B_GB_CAM1 MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL K. B_GB_CAM1 MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLLCTDV NTTSSS. B_GB_GBACC MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLLCTDV NTTSSS. B_GB_GBACC MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLLCTDV NTTSSS. B_KR_WK_AF MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLKCTDL NDTNTN. B_NL_3202A MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLKCTDL NDTNTN. B_US_BC_L0 MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLKCTDL NDTNTN. B_US_BC_L0 MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLKCTDL NDTNTN. B_US_DL_32CSF MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDC K. B_US_MNCG MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL K. B_US_PRS_FM MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL R. B_US_FF M1 MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL R. B_US_FF M1 MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL R. B_US_FF M1 MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL R. B_US_WR27 MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL TO		
B DE D31 U BDE HAN_U BCHAN_U B		
B DE HAN U B FR HXB2 B GA OYI B GA OYI MWKNDMVEQM HEDIISLWDQ B GB CAM1 B GB CAM1 B GB CAM1 B GB CAM1 MWKNDMVEQM HEDIISLWDQ B SLKPCVKLTP LCVTLKCTDV N. B GB CAM1 B GB CAM1 MWKNNMVEQM HEDIISLWDQ B SLKPCVKLTP LCVTLCTDV NT. B GB CAM1 MWKNNMVEQM HEDIISLWDQ B SLKPCVKLTP LCVTLCTDV NN. B GB CAM1 MWKNNMVEQM HEDIISLWDQ B SLKPCVKLTP LCVTLCTDV NN. B CAM1 B		
B FR HKB2 BGA_OYI_ B_GB_CAM1 B_GB_CAM1 B_GB_CAM1 B_GB_CAM1 B_GB_GB_C B_GB_C B_GB_C B_GB_C B_GB_C B_GB_C B_GB_C B_GB_C B_GB_C B_GB_CAM1 B_GB_GB_C B_GB_C B_MKKNNWVEQM BEDIISLWDQ SLKPCVKLTP LCVTLNCTDY B_CVTLNCTDF		
B GA_OYI_ B_GB_CAMI_ B_GB_GBB_C B_GB_CAMI_ B_GB_CBB_C B_GB_CAMI_ B_GB_CBB_C B_GB_CAMI_ B_GB_CBB_C B_GB_CAMI_ B_GB_CBB_C B_GB_CAMI_ MWKNIMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLICTINV NN. B_GB_CAMI_ B_WKNIMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLCTDTV VG. B_US_BC_LO B_WKNIMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLKCTDT R. B_US_BC_LO B_US_BC_LO MWKNIMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLKCTDT NDITNTN. B_US_MCG_ MWKNIMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLKCTDT K. B_US_MCG_ MWKNIMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDE LKNA. B_US_P896_ MWKNIMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL K. B_US_P896_ MWKNIMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL K. B_US_WACI_ B_US_WACI_ MWKNIMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL K. B_US_WACI_ MWKNIMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL M. B_US_WACI_ MWKNIMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL G. C_BW_96BW1 MWKNIMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL JCVTLNCTDL		
B GB CAM1 B GB CAM1 B GB CAM1 B GB GAMAC B GB MANC B KR WK AF B NL 3202A B LUS DEC LO B LUS DH123 B LUS JRCSF MWKNIMVEQM B LUS JRCSF LCVTLICCTID LCVTLICCTID LCVTLICCTIV LCVTLICCTIV LCVTLICCTIV LCVTLICCTIV LCVTLICCTIV LCVTLICCTIV LCVTLICCTIV LCVTLICCTIV LCVTLICCTIV LCVTLICCTIV LCVTLICCTIV LCVTLICCTIV LCVTLICCTIV LCVTLIC		
B GB GB BB C BB GB MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL R. B KR WK AF B MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL WINNNVEQM GEDIISLWDQ SLKPCVKLTP LCVTLNCTDF G. B LUS DEL LO MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDF G. MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDF N. MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDF N. MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDF N. MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTN TV. MWKNDMVDQM HEDVISLWDQ SLKPCVKLTP LCVTL		
B GB MANC B KR WK AF MKKNIMVEQM QEDVISIMDQ SIKPCVKITP LCVTLNCTDL R B NL 3202A B TW TWCYS MKKNIMVEQM HEDIISIMDQ SIKPCVKITP LCVTLNCTDL G B US BC LO B WKKNIMVEQM HEDIISIMDQ SIKPCVKITP LCVTLNCTDL LKNA B US BC LO MKKNIMVEQM HEDIISIMDQ SIKPCVKITP LCVTLNCTDL LKNA B US JRCSF B US MKKNIMVEQM QEDVISIMDQ SIKPCVKITP LCVTLNCTDL LKNA B US JRCSF B US MKKNIMVEQM HEDIISIMDQ SIKPCVKITP LCVTLNCTDL R B US JRCSF B US MKKNIMVEQM HEDIISIMDQ SIKPCVKITP LCVTLNCTDL R B US JRSSS MWKNIMVEQM HEDIISIMDQ SIKPCVKITP LCVTLNCTDL R B US RSSS MWKNIMVEQM HEDIISIMDQ SIKPCVKITP LCVTLNCTDL R B US WEAU1 B US WEAU1 B US WEAU1 B US WEAU1 B WKKNIMVEQM HEDIISIMDQ SIKPCVKITP LCVTLNCTDL R B US WEAU1 B WKKNIMVEQM HEDIISIMDQ SIKPCVKITP LCVTLNCTDL R B US WEAU1 B WKKNIMVEQM HEDIISIMDQ SIKPCVKITP LCVTLNCTDL R B US WEAU1 B WKKNIMVEQM HEDIISIMDQ SIKPCVKITP LCVTLNCTDL R B US WEAU1 B WKKNIMVEQM HEDIISIMDQ SIKPCVKITP LCVTLNCTDL R B WKKNIMVEQM HEDIISIMDQ SIKPCVKITP LCVTLNCTDV WTR C BW 96BW1 MKKNIMVEQM HEDIISIMDQ SIKPCVKITP LCVTLNCTNV TV. C BW 96BW1 MKKNIMVEQM HEDIISIMDQ SIKPCVKITP LCVTLNCTNV TV. C BW 96BW1 MKKNIMVEQM HEDIISIMDQ SIKPCVKITP LCVTLNCTNV TV. C ET ETT22 C MKKNIMVEQM HEDIISIMDQ SIKPCVKITP LCVTLNCTNV TV. C IN 93 IN1 MKKNIMVEQM HEDIISIMDQ SIKPCVKITP LCVTLNCTNV TV. C IN 93 IN1 MKKNIMVEQM HEDIISIMDQ SIKPCVKITP LCVTLNCTNV TV. C IN 93 IN1 MKKNIMVEQM GEDVISIMDQ SIKPCVKITP LCVTLCCTNV TV. C IN 93 IN1 MKKNIMVEQM GEDVISIMDQ SIKPCVKITP LCVTLCCTNV TV. C IN 94 IN1 MKNIMVEQM GEDVISIMDQ SIKPCVKITP LCVTLCTKA SFTNATS. C IN 94 IN1 MKNIMVEQM GEDVISIMDQ SIKPCVKITP LCVTLCTKA DFYTKF. C IN 94 IN1 MKNIMVEQM GEDVISIMDQ SIKPCVKITP LCVTLCTNA NITNVIM. C IN 94 IN1 MKNIMVEQM GEDVISIMDQ SIKPCVKITP LCVTLCTNA NITNV		MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLTCTAR ARE
B_KR_WK_AFF B_NL_3202A B_NL_320A B_NL_		
B_NL_3202A B_TW_TWCYS B_TW_TWCYS B_US_DL0 B_US_DH123 B_US_DH123 B_US_JRCSF B_US_JRCSF B_US_JRCSF B_US_RSF_M1 B_US_RSF_M1 B_US_SF2_K B_US_WS27 B_US_WS27 B_US_YU2_M BF1_BR_93B C_BW_96BW1 MWKNDMVDQM HEDIISLWDQ C_ETU_P31N1 C_IN_93IN1 MWKNDMVDQM HEDIISLWDQ C_IN_93IN1 MWKNDMVDQM HEDIISLWDQ C_IN_93IN1 MWKNDMVQM HEDVISLWDQ C_IN_93IN1 MWKNDMVQM HEDVISLWDQ C_IN_93IN2 MWKNDMVQM HEDVISLWDQ C_IN_93IN3 MWKNDMVQM HEDVISLWDQ C_IN_93IN3 MWKNDMVQM HEDVISLWDQ C_IN_93IN3 MWKNDMVQM HEDVISLWDQ C_IN_93IN3 MWKNDMVQM HEDVISLWDQ C_IN_94IN1 MWKNDMVQM HEDVISLWDQ C_IN_95IN2 MWKNDMVQM HEDVISLWDQ CRF01_AE_C MWKNNMVEQM QEDVISLWDQ CRF01_AE_C MWKNNMVEQM QEDVISLWDQ CRFVILTE CCTTLICTTA MWKNNMVEQM QEDVISLWDQ SLKPCVKLTP LCVTLRCTDL LCVTLRCTDL NVNN LCVTLNCTDL NVNN NVVN NVV		
B_TW_TWCYS B_US_BC_LO B_US_BC_LO B_US_BC_LO B_US_DH123 B_US_JRCSF B_US_MNCG_B_US_MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL K. B_US_JRCSF B_US_MNCG_B_US_RF_M1 B_US_RF_M1 B_US_SE2_K MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL R. B_US_SE2_K MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL R. B_US_WEAU1 B_US_SE2_K MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL G. B_US_WEAU1 B_US_SE2_K MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL T. B_US_WEAU1 B_US_SE2_K MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL T. B_US_WEAU1 B_US_		
B_US_BC_LO B_US_DH123 B_US_JRCSF B_US_JRCSF B_US_MNCG B_US_MNCG B_US_MNCG B_US_MNCG B_US_RF_M1 MWKNNMVEQM MWKNNMVEQM MWKNNMVEQM MWKNNMVEQM MWKNNMVEQM MEDIISLWDQ SLKPCVKLTP LCVTLNCTDL R. B_US_P896_ MWKNNMVEQM MEDIISLWDQ SLKPCVKLTP LCVTLNCTDL R.		
B_US_DH123 B_US_JRCSF B_US_JRCSF B_US_MNCG B_US_P896 MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL K. MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL R. B_US_P896 MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL R. MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL NLN. B_US_SF2_K B_US_WEAU1 B_US_WE		
B US _JRCSF B US _MNCG_ B US _MNCG_ B US _MNCG_ B US _P896_ B US _RF_M1 B US _SF2_K MWKNNMVEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL R. B US _SF2_K MWKNNMVEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL R. B US _SF2_K MWKNNMVEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL G. B US _WRAU1 B WKKNNMVEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDL G. MWKNNMVEQM HEDIISLWDE SLKPCVKLTP LCVTLNCTDV MVTN. B US _WRAU1 B	B_US_BC_L0	
B US MNCG B US P896 B US P896 MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL R. B US SF2 K MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL G. B US WR27 B US WR27 B US WR27 B US YU2 M MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL G. C BR 92BRO C BR 92BRO C BR 96BW1 C BW 96BW1 C BW 96BW1 C ET ETH22 C LIN 93 IN19 C LIN 93 IN19 C LIN 93 IN19 C LIN 94 IN1 C CRF01 AE C CRF01 AE C CRF01 AE C CRF01 AE T CRF	B_US_DH123	MWKNNMVEOM HEDITSI, WDO SI, KROUKLER LCVI'LNC'TDE LKNA
B US P896 MWKNNMVDQM HEDIISLWDD SLKPCVKLTP LCVTLNCTDL R. B US FF M1 MWKNNMVEQM QEDIISLWDQ SLKPCVKLTP LCVTLNCTDL G. B US WEAU1 MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDL G. B US WEAU2 MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDV NVTN. B US WEAU3 MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDV NVTN. B US WEAU4 MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDV NVTN. B US WEAU5 MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDV NVTN. B US WEAU6 MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDV NVTN. B US WEAU7 MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDV NVTN. B US WEAU7 MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDV NVTN. B US WEAU6 MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTNV NVTN. B US WEAU7 MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTNV NVTN. B US WEAU7 MWKNDMVDQM HEDVISLWDQ SLKPCVKLTP LCVTLNCTNV NVTN. C B 92860 MWKNDMVDQM HEDVISLWDQ SLKPCVKLTP LCVTLNCTNV TV. C IN 931N1 MWKNDMVDQM HEDVISLWDQ SLKPCVKLTP LCVTLNCTNV KNNTKVT. C IN 941N1 MWKSDMVNQM HEDVISLWDQ SLKPCVKLTP LCVTLNCTNV NVTN. C IN 951N2 MWKNDMVQM HEDVISLWDQ SLKPCVKLTP LCVTLNCTNV NVTN. C IN 951N2 MWKNDMVQM HEDVISLWDQ SLKPCVKLTP LCVTLNCTNV NVTN. C IN 951N2 MWKNDMVQM HEDVISLWDQ SLKPCVKLTP LCVTLNCTNA NST. C IN 951N2 MWKNDMVQM QEDVISLWDQ SLKPCVKLTP LCVTLNCTNA DFYTTKF. C IN 951N2 MWKNNMVEQM QEDVISLWDQ SLKPCVKLTP LCVTLNCTNA NLTNVNN. C IN 961N2 MWKNNMVEQM QEDVISLWDQ SLKPCVKLTP LCVTLNCTNA NLTNVNN. C IN 961N2 MWKNNMVEQM QEDVISLWDQ SLKPCVKLTP LCVTLNCTNA NLTNVNN. C IN 961N2 MWKNNMVEQM QEDVISLWDQ SLKPCVKLTP LCVTLNCTNA NLTNVNN.		
B_US_RF_MI B_US_SF2_K B_US_WEAU1	B_US_MNCG_	MWKNNMVEOM HEDITSIWDO SIKPCVKLTP LCVTLNCKDV
B_US_RF_MI B_US_SF2_K B_US_WEAU1	B_US_P896	MWKNNMVDOM HEDITSIWDE SIKPCVKLTP LCVTLNCTDL R
B_US_WEAU1 B_US_WR27_ MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP B_US_YU2_M MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP C_BR_96BN1 MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP C_BW_96BW1 MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP C_BW_96BW1 MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP C_BW_96BW1 MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP C_IN_93IN1 MWKNDMVDQM HEDVISLWDQ SLKPCVKLTP C_IN_93IN1 MWKNDMVNQM HEDVISLWDQ SLKPCVKLTP C_IN_94IN1 MWKNDMVNQM HEDVISLWDQ SLKPCVKLTP C_IN_95IN2 MWKNDMVNQM HEDVISLWDQ SLKPCVKLTP C_IN_95IN2 MWKNDMVNQM HEDVISLWDQ SLKPCVKLTP C_RF01_AE_C MWKNNMVEQM QEDVISLWDQ SLKPCVKLTP CRF01_AE_C MWKNNMVEQM QEDVISLWDQ SLKPCVKLTP CRF01_AE_T	B_US_RF_M1	MWKNNMVEOM HEDITSIWDO GIRDOWG TO LCVTLNCTNL
B_US_WEAU1 B_US_WR27_ MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP B_US_YU2_M MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP C_BR_96BN1 MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP C_BW_96BW1 MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP C_BW_96BW1 MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP C_BW_96BW1 MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP C_IN_93IN1 MWKNDMVDQM HEDVISLWDQ SLKPCVKLTP C_IN_93IN1 MWKNDMVNQM HEDVISLWDQ SLKPCVKLTP C_IN_94IN1 MWKNDMVNQM HEDVISLWDQ SLKPCVKLTP C_IN_95IN2 MWKNDMVNQM HEDVISLWDQ SLKPCVKLTP C_IN_95IN2 MWKNDMVNQM HEDVISLWDQ SLKPCVKLTP C_RF01_AE_C MWKNNMVEQM QEDVISLWDQ SLKPCVKLTP CRF01_AE_C MWKNNMVEQM QEDVISLWDQ SLKPCVKLTP CRF01_AE_T	B_US_SF2 K	
B_US_WR27_ MWKNNMXEQM HEDIIXLWDQ SLKPCVKLTP LCVTLNCTDV B_US_YU2_M MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTDV BF1_BR_93B MWKNNMVEQM HTDIISLWDQ SLKPCVKLTP LCVTLNCTDL C_BR_92BR0 MWKNDMVDQM HQDIISLWDQ SLKPCVKLTP LCVTLNCTRV TT. C_BW_96BW1 MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTNV TV. C_BW_96BW1 MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTNV TV. C_BW_96BW1 MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTNV TV. C_ET_ETH22 MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTNV ST. C_IN_93IN1 MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTNV ST. C_IN_93IN9 MWKNDMVDQM HEDVISLWDQ SLKPCVKLTP LCVTLNCTNV ST. C_IN_93IN9 MWKNDMVNQM HEDVISLWDQ SLKPCVKLTP LCVTLECRNV S. C_IN_93IN9 MWKNDMVNQM HEDVISLWDQ SLKPCVKLTP LCVTLECRNV S. C_IN_93IN9 MWKNDMVNQM HEDVISLWDQ SLKPCVKLTP LCVTLECSEY NGTSKAN. C_IN_93IN9 MWKNDMVNQM HEDVISLWDQ SLKPCVKLTP LCVTLECTKA KLNDTYN. C_IN_93IN9 MWKNDMVNQM DQEDVISLWDQ SLKPCVKLTP LCVTLCTTA KLTNVTN. C_IN_93IN9 MWKNDMVQM QEDVISLWDQ SLKPCVKLTP LCVTLCTTA KLTNVTN. C_IN_93IN9 MWKNDMVQM QEDVISLWDQ SLKPCVKLTP LCVTLCTTA KLTNVTN. C_IN_93IN9 MWKNDMVQM QEDVISLWDQ SLKPCVKLTP LCVTLCTNA NNTNANV.		
B_US_YU2_M BF1_BR_93B MWKNNMVEQM HEDIISLWDQ SLKPCVKLTP C_BR_92BR0 MWENDMVEQM HQDIISLWDQ SLKPCVKLTP C_BW_96BW0 MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP C_BW_96BW1 MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP C_BW_96BW1 MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP C_BW_96BW1 MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP C_ET_ETH22 MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP C_IN_93IN1 MWKNDMVDQM HEDVISLWDQ C_IN_93IN9 MWKNDMVNQM HEDVISLWDQ SLKPCVKLTP LCVTLNCTNV TV. C_IN_93IN9 MWKNDMVNQM HEDVISLWDQ SLKPCVKLTP LCVTLCTNV ST. C_IN_94IN1 MWKNDMVNQM HEDVISLWDQ SLKPCVKLTP LCVTLECRNV SLKPCVKLTP LCVTLECRNV K. C_IN_95IN2 MWKNDMVNQM HEDVISLWDQ SLKPCVKLTP LCVTLECGNV T. CRF01_AE_C MWKNNMVEQM QEDVISLWDQ SLKPCVKLTP CRF01_AE_T MWKNNMVEQM QEDVISLWDQ SLKPCVKLTP CCVTLNCTNA NWTNANV.		
BF1_BR_93B MWKNNMVEQM HTDIISLWDQ SLKPCVKLTP C_BR_92BR0 MWENDMVEQM HQDIISLWDQ C_BW_96BW0 MWKNDMVDQM HEDIISLWDQ C_BW_96BW1 MWENDMVNQM HEDIISLWDQ C_BW_96BW1 MWKNDMVDQM HEDIISLWDQ C_BW_96BW1 MWKNDMVDQM HEDIISLWDQ C_ET_ETH22 MWKNDMVDQM HEDIISLWDQ C_IN_93IN1 MWKNDMVDQM HEDVISLWDQ C_IN_93IN1 MWKNDMVDQM HEDVISLWDQ C_IN_93IN9 MWKNDMVNQM HEDVISLWDQ C_IN_93IN9 MWKNDMVNQM HEDVISLWDQ C_IN_94IN1 MWKNDMVNQM HEDVISLWDQ C_IN_95IN2 MWKNDMVNQM HEDVISLWDQ C_RF01_AE_C MWKNNMVEQM QEDVISLWDQ CRF01_AE_C MWKNNMVEQM QEDVISLWDQ CRF01_AE_C MWKNNMVEQM QEDVISLWDQ SLKPCVKLTP SLKPCVKLTP LCVTLECRNV SLKPCVKLTP LCVTLECRNV SLKPCVKLTP LCVTLECRNV SLKPCVKLTP LCVTLECRNV T. LCVTLECTNV T.		
C_BR_92BR0 MWENDMVEQM HQDIISLWDQ SLKPCVKLTP LCVTLHCSNA TT. C_BW_96BW1 MWENDMVNQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTTV TV. C_BW_96BW1 MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTNV TV. C_BW_96BW1 MWKNDMVDQM HEDIISLWDQ SLKPCVKLTP LCVTLNCTNV TV. C_ET_ETH22 MWKNDMVDQM HEDIISLWDQ GLKPCVKLTP LCVTLNCTNV ST. C_IN_93IN1 MWKNDMVDQM HEDVISLWDQ SLKPCVKLTP LCVTLNCNAI KNNTKVT. C_IN_93IN9 MWKNDMVNQM HEDVISLWDQ SLKPCVKLTP LCVTLECRNV S. C_IN_93IN9 MWKNDMVNQM HEDVISLWDQ SLKPCVKLTP LCVTLECRNV K. C_IN_94IN1 MWKSDMVNQM HEDVISLWDQ SLKPCVKLTP LCVTLECSEY NGTSKAN. C_IN_95IN2 MWKNDMVNQM HEDVISLWDQ SLKPCVKLTP LCVTLECGNV T. CRF01_AE_C MWKNNMVEQM QEDVISLWDQ SLKPCVKLTP LCVTLECRNV NST. CRF01_AE_C MWKNNMVEQM QEDVISLWDQ SLKPCVKLTP LCVTLECTKA KLNDTYN. CRF01_AE_T MWKNNMVEQM QEDVISLWDQ SLKPCVKLTP LCVTLHCTKA SFTNATS. CRF01_AE_T MWKNNMVEQM QEDVISLWDQ SLKPCVKLTP LCVTLHCTTA KLTNVTN. CRF01_AE_T MWKNNMVEQM QEDVISLWDQ SLKPCVKLTP LCVTLHCTTA KLTNVTN. CRF01_AE_T MWKNNMVEQM QEDVISLWDQ SLKPCVKLTP LCVTLHCTTA NLTNVNN. CRF01_AE_T MWKNNMVEQM QEDVISLWDQ SLKPCVKLTP LCVTLHCTTA NLTNVNN. CRF01_AE_T MWKNNMVEQM QEDVISLWDQ SLKPCVKLTP LCVTLHCTTA NLTNVNN. CRF01_AE_T MWKNNMVEQM QEDVISLWDQ SLKPCVKLTP LCVTLNCTNA NWTNANV.		
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F2_CM_MP25	MÖGAMMAYAM	HEDIISLWDE	SLKPCVKLTP	I.CVTT.NCTKA	TT
F2KU_BE_VI	MMV74MMAEQM	HADIISTMDO	GLOPCVKTTP	T.CVTT.NCQDW	TAT
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H_BE_VI991	MMAMMMAEÖM	HIDIISTADO	SLKPCVKLTP	LCVTLDCSSV	NTA
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H_CF_90CF0	MEMMINATOM	HIDITSTMDO	SLKPCVKLTP	T.CVTT.NCTNTX	DIT
J_SE_SE702	MYMADMADÓM	<b>GEDITZAMDE</b>	SLKPCVKITP	LCVTLMCSDW	MONNIC
J_SE_SE788	MOGAMORAMA	GEDITZAMDE	SLKPCVKITP	I.CVTT.NCSNT	TOMON
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	CHECKITY	Y	NVTNMQ	EMKNCSFNVT	TELRDKRQKV
A_SE_SE889	SSVT	N	ITSDMAG	EIKNCSFNMT	TEIRDKRQKV
A_SE_UGSE8	NTNSTSA	N	LTDSVKG	EMRNCSFNIT	TELRDKKKKV
A_UG_92UG0	NITNSIT	N	SSVNMRE	ETKNCSFNMT	זיי מוגעות בידי
A_UG_U455_	NTN.NNT	N	ITDGVRE	EMKNCSENMT	TELDDERORY
AC_IN_2130	NSTGWGK		E	EIKNCSFNTT	TELBURDORY
AC_RW_92RW	TVN		ITDDMKG	ETKNCSENMT	TELDDAMOUS
AC_SE_SE94	TPNNATH	N	DSMVG	DMKNCPFNMT	שעמפעום.זקיד
ACD_SE_SE8	TNATDSN	N	ASLODMAK	EMTNICSEMMT	TET.DDWWODM
ACG_BE_VI1	SNGTAI	N	ITESIKG	EMKNCSFKAT	TELMINAKAM
AD SE SE69	ETSMN	G		EIKNCSFNMT	TELEDIKKKKE
AD SE SE71	VTNATNI	T	NANTITG	EMKNCSFNMT	TETKDVEÖÖA
ADHK NO 97	HTDTTNN		TSTORGO	PSANCSFNVT	TELIMIKARKV
ADK CD MAL	AGSNRTNAEL.	KM.	TTC	EVKNCSFNIT	TATKDKQQKV
AG BE VI11	STRETEGEN	CSID	TETG	ELKNCSFNIT	PVGSDKR.QE
AG_NG_92NG	STGNSAGTNA	TONT	·····IEVG	EPWICSENTL	TELRDKKKTE
AGHU GA VI	ANTENGREE	TCN1	· · · · · · · EEAN	NLKNCSFNIT	TEIRDKKKTE
	IINNSID	KANV	TNNDA	EMRNCSFNIT	TEIRDRKKKE
AGU_CD_Z32	NSTES	N	ITAEMQG	EIKNCSYNMT	TELRDKQRKI
AJ_BW_BW21	GCTNN	NCT	· · · · · · · · · · · VS	EMKECHFNIT	GGGRRKKE
B_AU_VH_AF	NVTFTNS	RHVTNS	.SYVGSMEKG	EMKNCSFNIT	TSIRDKRHKE
B_CN_RL42_	NATNTSS	T	MEGG	EIKNCSFNTT	ת אנאייצאיי ה
B_DE_D31_U	NATNTNN	SSWT	MTGEMKG	ETKNCSENTT	TOTODYTOVE
B_DE_HAN_U	NATNSS.		WGRMEKG	EIONCSFKVT	TMITDDKUOKE
B_FR_HXB2_	NDTNTNS	SS.G	RMIMEKG	EIKNCSFNTS	TSTRGKVOKE
B_GA_OYI	.LRNATNTTS	ss	WETMEKG	ELKNCSFNTT	TOTIONVOICE
B GB CAM1	TRTNSSD	WDRR	EGEKMKG	EIKNCSFNVT	TOTENTALISE
B GB GB8 C	NDTNTNN	SIME	GG	EMKNCSFNIT	TOTANKVKKE
B GB MANC	NATNTTS	TNNTAS	GSWGAMP G	EIKNCSFNIT	TSIKDVMÖKE
B_KR_WK_AF	N. SSTSENN	TMPTTS	GGEGMGEG	EMKNCSFNYT	TNIRDKVHKE
B NL 3202A	אוובטבטבווו	6 6	GGEGNGEG	EIKNCSFKIN	TNIKDKVOKE
B_TW_TWCYS	TMCKNDC	NT	GVIIEKG	EIKNCSFKIN	TNMKDKAQIE
B US BC LO	CONTROLLE	м	TLTMEKG	EIKNCSFNVT	TSLRNKVQKE
	· INITIBILITY	5G5	WKKMERG	EIKNCSFNVL	GDKKQKA
B_US_DH123	NGINLKN	GTK	IIGKSMRG	EIKNCSFNVT	KNIIDKVKKE
.B_US_JRCSF	···NATNTTS		.SSEGMMERG	EIKNCSFNIT	KSIRDKVQKE
B_US_MNCG_	···NTTNTNN	STANN.NS	.NSEGTIKGG	EMKNCSFNIT	TSIRDKMQKE
B_US_P896_	NITKNTT	NPTS	.SSWGMMEKG	EIKNCSFYIT	TSIRNKVKKE
B_US_RF_M1	GTNVTS	ssg	GTMMENG	EIKNCSFQVT	TSRRDKTQKK
B_US_SF2_K	KATNTNS	SN	WKEEIKG	EIKNCSFNIT	TSTPDKTOKE
B_US_WEAU1	. LKNETNTNS	SSG	GEKMEEG	EMKNCSFNVT	יםייע כאוא סד. די
B_US_WR27_	WNATSTS	KNTTITNS	.SNERPMEKG	EMKNOSESTT	TETDDYMOVE
B_US_YU2_M	.R.NATNTTS	SS	WETMEKG	EIKNCSFNTT	TSTDDKMOKE
BF1_BR_93B	NST	.QND	TLKEEPG	AIONCSFNMT	TEVRDROLKV
C_BR_92BR0	IDYN	N	RTDNMGG	ETKNCSFNMT	יזעישמערופונדע
C_BW_96BW0	VPANGTSN		SSVSMKE	EMRNCSFNIT	TEVIDICKERV
C_BW 96BW1	.NDTLHQNFT	D	• • • • • • • • • • • • • • • • • • • •	.MKNCSFNVT	TELICULARY
C BW 96BW1	NSNA	T	YNNKNNG	EIKNCSFNAT	TELIADARAME
C BW 96BW1	.NYSNTMNAT	S	VMMMTTE	EIKNCTFNMT	TETYDVÕÕVA
C ET ETH22	N	N	STNEAMD	EMKNCSFNIT	TELRDKKQQV
C IN 93IN1	RNVSSY	N	TYNGSVE		
C_IN_93IN9	MDSTHM	F	TINGSVE	EIRNCSFNAT	PEVRDRKQRM
C_IN_93IN9		C	TITESVK	EIKNCSFNAT	TEIRDRKQTV
C IN 94IN1	VILLENDA	G	NATSNGE	EIQQCFFNVT	
	QNGTIN	D	ESNK		TEIRGRKQKV
C_IN_95IN2	GNGTHS	K	TYNESMK	EIKNCSFNAT	TVIKDKKQTV
CRF01_AE_C	GTAKLN	• • • • • • • • • •	DTIGD	EVRNCSFNVT	TELDDRROPH
CRF01_AE_C	DRIK		MED	AVRNCSENMT	TELQDKKQEV
CRF01_AE_C	M.L.RK	E	IEISEMOK	EVSNCPFNTT	TELRDKEQEV
CRF01_AE_T	ITNVP	N	IGNITD	EVRNCSENMT	TETEDERORY
CRF01_AE_T	····NVS	N	IIG. NITD	EVRNCSENMT	TELDDKKOOU
CRF01_AE_T	INAN. WNAL	N	IVG.NITE	EVRNCSFNMT	TELTDKKOKV
CRF01_AE_T	TKADNMTNVS	N	ITIGNITD	EVRNCTFNMT	TOTATORKOKV
CRF01_AE_T	KTNVS	N	. IIG NITTO	EVRNCTFNMT	
	-	•		- MACTEMBI	TOUTON

	01_AE_T	TTEAR	P N	IVGTD	EVKNCSFNV	TELRDKTQQV
	02_AG_F		ONCOTATINK	LUSUMOR	EIKNCSFNM	L LETKDKKÓKA L LETKDKLŐĞA
	02_AG_F	иодтоль		ISRDMOG	EIKNCSENM	TELRDKKQQV
	02_AG_G	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	TSDGSMS	TT DATA CONTRACT	
	02_AG_N	SYSNSS	N	LTSDMMC	DIDIOOMA	
	02_AG_S	$\dots$ SS.GN.	• • • • • • • • • •	ISENMOG	ETKMCSFN11	TEVRDKKKKM TELRDKKQKV
	02_AG_S	· · · • • • • • • • • • • • • • • • • •		SKINEVO	EMKNICGENMI	TELEDRIKKKM
CRF	03_AB_R	EVTSTNT	s	STKMM	EMKNICSENT	TOLKDKYKKE
	03_AB_R	NDTSTNA	S	GTEMM	KM CCENTA	TDLRDKVKKE
CRF	04_cpx_	TTNSTN	GTVI		CIKNCEEDTO	TEIRDKKKKE
	04_cpx_	TNNSTTNSTG	NSTV	KSТа	EIKNICSEDII	TEVRDKQKKE
	04_cpx_	STNSTP	NVTT	Т м	BWKNCGENTA	TEVRDKOKKE TEIRDKKKKA
CRF	D5_DF_B	NSTANST	TNST	TIKEETG	A TONTO CICATMO	MITTER TOTAL
	D5_DF_B	$\dots$ ATTTSKN	ISATPTSN	PNDTLKEEOG	$\lambda T \cap M \cap T \cap T \cap T \cap T$	M7077777777777777777777777777777777777
CRF	)6_cpx_	PINDITIONIO	TT VD	DTCK	アイアバイ つつかれてい	MTTTTTT
CRF	)6_cpx_	T · I/I/I/	IVES	CT	レーア とうしつつ ロシャ アハ	// // // // // // // // // // // // //
CRF	6_cpx_	· · · · · · · · TATATA	TVEG	K TO	PIVNOCDATA	Mm =
CRFC	6_cpx_	TOWELAGYER	TVKD	. סבי	DT VAICOUNTER	F
CRF1	l1_cpx_	• • • • • • • • •	• • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	TIMENTO CONTRACTOR	MMT TOOMS
CRF1	1_cpx_			יים עדערד	DIVIONENTATION	
D_CI	84ZR0	TONNOTHETA	<b>NP</b>	CT.	MUNICIPIATE	TT W ****
D_CI	ELI_K	TIGHTATTEEV	G		かんとうてんりつ コンコ かっ	
D_CD	NDK M	TOMOTAPET	Λ		DIATAGER	
D_UG	94UG1	· · · · · TTNTT	G	••••••••	MANCCENTE	DKREQV
F1_B	E_VI85	· · · MOO · · · ·		EK DO	A MONTO CITATOR	
F1_B	R_93BR	· · · MGTMDTT	AIND	ם ברותא זיי	A TOMOGRAPHE	MDIDD:
F1_F	'I_FIN9	· · · · · · · · · · · · · · · · · · ·	DOSS	'I'I KEEDO	$\lambda + \Delta \lambda + $	MINT POR TETTO
F1_F	R_MP41	TSNATTT	NDTS	TP.EESG	ATOMCSENMT.	TEVEDKKÖKA
F2_C	M_MP25	NVTSSNN	TTLA	PNVTISE	WINDCENTE	TEVKDKKLRV
F2KU	BE VI	INSTDLT	NWANKTNNWA	NETTLLNITT	CMDMCCDENTA	TETROKOKKE
G_BE	DRCBL	NS	TRNI	TEEY	DMINICOLIMA	TMLKDKKKKQ
G_NG	_92NG0	· OWNUT PHIMIN	• • TV • • • • •	FINTED	PIVNICOUNTER	TTT
G_SE	SE616	PIDNPIPINN	S.TV	חאום	DIVITOODING	
HBE	 _VI991	••• TM A T V PM	NSTD	TNTCPTA	PODMOGRAM	M3
H_BE	_ _VI997	NDTNSSS	TVNA	TSSPSAN	EQRNCSFNVT	TAIRDKNOKV
H_CF	_90CF0	NTSNSTS	SMEA	GG	EDINCSENVI.	TVIRDKQQRV
	_SE702	TD9M9	SASN	. NCDD	TMVNICOUNTRY	MT Theren
J_SE	SE788	TTSNS	SVS	SPD	THUNCSENVI	TEIRNKRKQE
K_CD	EQTB1	NRTNANK	NDT	NINATVTSTD		
K CM	MP535	TNSTN		MATERIAL	DIMONTO	TELKDKKKRV
N_CM	YBF30	NNTNMTT	R	EPDIGYK	PIKNCSENIT	TEIKDKKKKE
	_ ANT70	· · · · <u></u>		- דאיבואיויים	T MVVV/コココンマャー	PTT T'T TEM
O_CM	_ MVP51	• • • • • • • • • • • • • • • • • • •		ואדייים זו.דו		TTT TT TTT
o_sn	_ 99SE	GNYTNNSS		INNDTSSPEN	LAKOGEDA	TATIDKKEÖK
	_ 99SE_	VNDETNSS		VKNDTSSEN	LVKQCEFNVT	TAAKDKKEKK
<u>ຫຼ</u> ເກັ	83C	STNN	N	TEEA	DIMAKCEFNVT	TVLKDKKEKQ
				Addi	TINCSFKVP	${ t TELKDKTETV}$

	201				250
00BW0762 1		OLGE	MAYA AT	SE	250
00BW0768 2	HALFYRLDIV	PLDEKOK	CCM	SN	······IRLI
00BW0874 2	SALFYRLDIV	PLNGS	אממש	SE	·····YKLI
00BW1471 2	RALFYRLDIV	PLNESDN	MQV	RE	VDII
00BW1616 2	YAIFHSLDIV	PLEN	SEN	SE	VDIT
00BW1686 8	YALFYKLDIV	PLEE	NDT	ST	VDIT
00BW1759 3	HALFYRLDIV	PLEGE	NNTN	NE	VDT.T
00BW1773 2	HALFYRLDIV	OLD	N	SS	VDT.T
00BW1783_5	YALFYKLDIV	PLEGNNS	E		VDI.T
00BW1795_6	YALFYRLDIV	SLDNENN	KT.	AE	VPI.T
00BW1811_3	YALFYKPDIV	PLDGS	NS	SE	VDT.T
00BW1859_5	YALFYKIDIV	PLNDN.	NSN.N	SM	VDT.T
00BW1880_2	YALFYRLDVV	PLDSPS	NATN	SR	VDT.T
00BW1921_1	YALFYRLDVV	QLN		SE	VDT.T
00BW2036_1	YALFYKLDIV	PLNGNSG		SE	VDT.T
00BW2063_6	YALFYKLDIV	PLGNTNG	T	.E	VDT.T
00BW2087_2	YALFYKLDIV	SLDD		S	VDT.T
00BW2127_2	YALFYRLDVV	PLDND	SA	T'N	VDT.T
00BW2128_3	YALFYKLDIV	PLNNS	SDNSS	GE	VDT.T
00BW2276_7	QALFYKLDIV	PLNSTGE	NNN	TE.	VDT.T
00BW3819_3	YALFYRLDVV	PLNGK	NS	SS.	VDT.T
00BW3842_8	HALFYRLDIV	PLEDNSG	NSS	SN	YRLI
00BW3871_3	YALFYKLDIV	PLND		NE	YRLI
00BW3876_9	NALFYKLDVV	PLHE	····GN	s	YRLI
00BW3886_8 00BW3891 6	YAPLAKPDIA	PLHDSSS	DG.	SE	YVLI
00BW3891_6 00BW3970 2	MATE AMEDIA	PLNG	KNQS	NE	YRLI
00BW5031 1	PALENTIDIV	PIDEMQ	• • • • • • • • • • • • • • • • • • • •	N	YRLI
96BW01B21	ANTEAKEDIM:	PLININEIN	NTKN	SD	YRLI
96BW0407	RALFYSLDTV	ODMN	GNNT	SE	YILI
96BW0502	HALFYRLDVV	PLOG	MM	NE	·····YRLI
96BW06 J4	YALFYRLDVV	PLGD		SS	·····YKLL
96BW11 06	YALFYRLDIV	PLNNKNE	S	SE	VDIT
96BW1210	YALFYRLDIV	PLDN	NS	SE	VDT.T
96BW15B03	YALFYKLDIV	PLNSNS		SE	VDT.T
96BW16_26	YALFYRLDVV	PLNGE	NSNSS	GE	VPI.T
96BW17A09	SALFYRLDIV	PLNENNS		SE	. VDT.T
96BWMO1_5	YALFYKLDIV	PLTNDAS	EN.	SE	VDI.T
96BWM03_2	YALFYKLDIV	PLDGNNE	DGN	KO	VDWT
98BWMC12_2	SALFYRLDIV	PLK	····ENS	SE	YRI.T
98BWMC13_4	QALFYRLDIV	PLDNANG	T	SE	YRT.T
98BWMC14_a	YALFYRLDIV	PLGE	D	ss	YRLI
98BWM014_1	AMPRAKTOIA	ELDG	NS	SN	YVLI
98BWMO18_d 98BWMO36_a	SALFYKLDIV	PLD	NSS	sk	YILI
98BWM038_a 98BWM037 d	IATEADDDIA	PLNGNG	SN	SE	YRLI
99BW3932 1	YALFYRLDIV	PLINEG	••••••	N	YRLI
99BW4642 4	NALFYKLDIV			SE	·····YRLI
99BW4745 8	YALFYRIDIV	DI'UEV.	ANNSY	SY SE	·····YRLI
99BW4754_7	HALFYRLDIV	DI ETK	NININS	SA	·····YRLI
99BWMC16 8	YALFYKVVIV		исии	SE	·····YRLI
A2_CD_97CD	YSLFYELDVV		SSV	ST	VOLT
A2_CY_94CY	YSLFYRLDVV		SGSN	TL	VDIT
A2D97KR	QALFYELDIV		TLN	RQ	VDT.T
A2G_CD_97C	RSLFYTLDIV		• • • • • • • • • •	.T	VRI.T
A_BY_97BL0	HSLFYKLDIV		• • • • • • • • • • • • • • • • • • • •	·Q	YRIT
A_KE_Q23_A	YSLFYRLDIV		.QG	SE	YRLI
A_SE_SE659	HSLFYRLDIV		. RGNSSNSSY	NE	YRLI
A_SE_SE725	YSLFYKLDIV		.GNNSNNS	SE	YRLI
A_SE_SE753	YSLFYRLDLV	KIDEN	.KSNSSN	sk	YRLI

A SE SE853	שמו ביעצו <i>הנתו</i>	DICON			
	ISDLIVEDAA	PIGGN	DTNS	<b>TQ</b>	YRLI
A_SE_SE889	HALFYRLDVV	PMDN	NNS.	.L	YRLI
A_SE_UGSE8	YSLFYKLDIV	KINKNKSFRG	. Knssgnsss	DR	YRLI
A_UG_92UG0	ARPLAKEDAA	QINNG	NNSS	NT.	VDT.T
A_UG_U455_	YSLFYRLDIV	QINKTD	N	NS	VDT.T
AC_IN_2130	YSLFYRLDVV	PIEEGOGNS.	SNSGY	KE	VDT.T
AC_RW_92RW	YSLFYRLDIV	OINSNSN	NSSH	NQ	VDII
AC SE SE94	HALFYRLDTV	PLDEGNSNSN	FCMMMV	SD	·····IRLI
ACD SE SE8	YSLFYKLDVV	OTNEN		sQ	ХКГТ
ACG BE VI1	VALEVDI.DTI.	DIMERTE	QNNS	GK	YRLI
AD_SE_SE69	HCI EAKI DIVI	OMONONO	GSS	GK	YRLI
AD SE SE71	ACT EALT DAY	QMGMSMS		sq	YRLI
	ISTLINTOV	OINENO	YNSSNNSN	KE	YRLI
ADHK_NO_97	HALFYRVULV	SIDN	NDNN	TQ	YRLI
ADK_CD_MAL	YATEYNLDLV	QIDDSDN	s	s	YRLI
AG_BE_VI11	HALFYRPDVV	PINNDN	• • • • • • • • • •		SSYMLI
AG_NG_92NG	YALFYRLDVV	PIDGNNNV		.s	NNYRLI
AGHU_GA_VI	YALFYKHDLV	PITN	ET	КТ	PTT.T
AGU_CD_Z32	YSLFYRLDIV	PIEENSSNG.	NS	SE	VDT.T
AJ_BW_BW21	YALFYKEDIA	LIKDRPN	NS	NY	CEVIII
B AU VH AF	FALFYKLDVV	QIDGS	N	TS	VDIT
B CN RL42	YALFYKVDVV	PIGND	S	TS	VDIT
B_DE_D31 U	YAHFYKLDVV	PIDND	M	TS	TULL
B DE HAN U	SALFYKTDVV	PIDMMKTG	MINCIGIN	TS	XKTI
B_FR_HXB2_	VAREAKIDIL	DIDNID	TMUMM	TS	YMLI
B_GA_OYI	VALEVET.DUT.	DIDENT		TS	·····YKLT
B GB CAM1	AVITANA DAMA	PIDKN	• • • • • • • • • • • • • • • • • • •	TK	FRLI
	TWILL I VIDAA	PIDKAN	• • • • • • • • • •	TS	YTLI
B_GB_GB8_C	IATITIKEDIA	SIGSD		TS	YILT
B_GB_MANC_	YALFYKLDVV	PIEKK	N	TS	FRLI
B_KR_WK_AF	AYPEAKPDII	PIDN	• • • • • • • • • •	TS	YALR
B_NL_3202A	YALFYKLDVV	PIDNNN	TNTSY	TS	YRLI
B_TW_TWCYS	YASFYRLDLV	QTDEN		TS.	VDT.T
B_US_BC_L0	YALFYKLDVV	PIDNDKNS		тк	VDT.T
B_US_DH123	YALFYRHDVV	PIDRN	I	TS	VDI.T
B_US_JRCSF	YALFYKLDVV	PID	NKNN	ΨК	VDT.T
B_US_MNCG	YALLYKLDIV	SIDND	S	TS	VDT.T
B US P896	YALFNRLDVV	PIE	אווידות	TK	VDIT
B US RF M1	YALFYKLDVV	PIEKGNISPK	N NTSNNTSV	GN	·····IRLI
B_US_SF2_K	NALFRNLDVV	PTDN AS	ALMINITUTE TO THE PARTY OF THE	TN	·····YTLI
B US WEAU1	YALFYKLDVM	סדווערוערוב	IIINI	·····	YRL1
B US WR27	HALEVOLDIAL	DIDK	***********	TS	YTLI
B US YU2 M	VALEVANT DIAL	DIDN	····NNTN	TS	YRLI
BF1_BR_93B	TATE INTDAA	PIDN	• • • • • • • • • •	AS	YRLI
	HALF IKLDIV	PISNDNSSND	·····NSS	RE	YRLI
C_BR_92BR0	HALFAKUDIA	PLKNE	SSNTS	GD	YRLI
C_BW_96BW0	RARFYRLDIV	QLNNN	····SNS	NE	YRLI
C_BW_96BW1	YALFYRLDIV	PLNNKNE	····SN.	SE	YRLI
C_BW_96BW1	YALFYRLDIV	PLDN	NS	SE	YRLI
C_BW_96BW1	YALFYKLDIV	PLNSNS		SE	VRI.T
$C_ET_ETH22$	YALFYKLDIV	PLN	NGS	TD	VRI.T
C_IN_93IN1	YALFYGLDIV	PLNKKN.	SSENS	SE	VDI.T
C_IN_93IN9			KKNSS	EY	VDIT
C_IN_93IN9	HALFYRLDLV	PLDNENKSS.	FSNSS	KT	VDIT
C IN 94IN1	YALFYKLDIV		MOG		·····IRLI
C_IN_95IN2	YALFYKLDIV		DOMOG		Кы
CRF01 AE C	HALFYVPDIV		DSNSS	GY	····YRLI
CRF01 AE C			MVN22GN2	SE	YILI
	ANTEADODI **	Δτοορ ΛΌΝΝΝ	NSNTSGONNS	нк	FRLI
CRF01_AE_C	TWTLIKEDTA	PIE	RNSGENNG	ss	YRLI
CRF01_AE_T	TALE Y KLDIV	OTENK	NDS	sk	YGLI
CRF01_AE_T	HALFYKLDIV	QMIN	KNS	SE	YRLI
CRF01_AE_T	YALFYKLDIR	QMN	SNS	SE	YRT ₁ T
CRF01_AE_T	YALFYKLDTI	PIG	NNN	NM	YRI.T
CRF01_AE_T	HALFYKLDIV	QIEDK	KTS	SE	YRLI

CRF01 AE T	QALFYKLDIV	QMGG	NDS	GE	YRLI
CRF02_AG_F	SALFYRLDVV	QINES	GN	sq	YRLI
CRF02_AG_F	SALFYRLDVV	QINES	SN	sq	YRLI
CRF02_AG_G	NALFYRVDVV	QMNNS		.Q	YRLI
CRF02_AG_N	HALFYRLDVV	QINEN	NG	sq	YRLI
CRF02 AG S	YALFYRYDVV	QINETG	DN	IQ	YRLI
CRF02_AG_S	AALFYKIDIV	PIDKN	A	TY	YRLI
CRF03 AB R	YALFYKLDVV	QIDND		.s	YRLI
CRF03_AB_R	HALFYKLDVV	QIDND		.s	YRLI
CRF04 cpx	YALFYRIDIV	PINARVPING	SNRNNST	EE	YMLI
CRF04 cpx	HALFYRLDVV	PINNNVPINN	TSNTSEY	RE	YRLM
CRF04_cpx_	YALFYRLDIV	PINDNNSTN.	SRRSSNT	SD	YMLI
CRF05 DF B		PISSDD			
CRF05 DF B	HALFYRLDIV	sins	SRK	E	YRLI
CRF06 cpx		PIGDD			
CRF06 cpx	YALFYRLDVV	PINDG	s	NN	NSYRLI
CRF06_cpx_		PINDN			
CRF06_cpx_		QVDG			
CRF11 cpx		PINDNNN			
CRF11 cpx	RALFYRLDVV	PINDS	ss	NI	GOYRLT
D CD 84ZRO	HALFYRLDVV	QIDNEGKNE.	INDTY	GT	YRLI
D_CD_ELI_K	YALFYRLDIV	PIDNDSS		TN	YRLI
D CD NDK M	YALFYKLDIV	PIDNNNR	TNS	TN	YRLI
D UG 94UG1	QALFYKLDVV	KINDNDS	DN	TS	YRLI
FI_BE_VI85		PIGNNN.			
F1 BR 93BR				RT	
F1 FI FIN9		PISNNN.		EE	YRLI
F1 FR MP41	NALFYKLDII	PINNS	ss	SD	YRLI
F2_CM_MP25	YALFYKLDVV	QINNS		NTS	YRLI
F2KU_BE_VI	YALFYREDIV	PINIKKNNKT	nsn	SKKNNNTSNN	SIENSKYRLI
G_BE_DRCBL	YALFYRTDVV	PINEMNNENN		NS	TWYRLT
G_NG_92NG0	YALFYKLDVV	PISNGN		.K	TSYRLI
G_SE_SE616		PINN			
H_BE_VI991	HALFYRADIV	QIDEGER	NKSD	NH	YRLI
H_BE_VI997	HALFYRLDVV	PIDETSNNN.	NSNS	TK	
H_CF_90CF0	HALFYRLDVV	PIDNNS		TQ	YRLI
J_SE_SE702	YALFYRQDVV	PIN	s	DN	KSYILI
J_SE_SE788	YALFYRQDVV	PID	s	NN	KNYILI
K_CD_EQTB1	SALFYKLDIV	QIKQSEINQS	ESE		DRLI
K_CM_MP535	SALFYRLDVL	PLN.GEGNNS	STE		
N_CM_YBF30	YSLFYVEDVV	PINAYN			KTYRLI
O_CM_ANT70	QALFYVSDLM	ELNETSSTNK	т	NS	KMYTLT
O_CM_MVP51	QALFYVSDLS	KVNDSNAVN.		.G	TTYMLT
o_sn_99se_	QALFYVSDLM	KINEANDT		.K	DMYTLI
O_SN_99SE_	QALFYVSDLM	KVNENND			TMYTLI
U_CD83C	HTLFYKLDVV	PLNVTN	N	ss	ISSTYRLI
<del></del>					

	0.51				
00BW0762 1	251 NCNTSTITQA	CDVIMEDDID	T.W. C. D. C		300
00BW0768_1	NCNTSAVTQA		THYCAPAGYA	ILKCNTKTFD	GTGPCTNVST
00BW0738_2	NCNTSAITQA		THYCAPAGYA	ILKCNNKTFN	GTGPCHNVST
00BW1471 2	NCNTSTITQA		IHYCAPAGYA	ILKCNNKTFN	
00BW1616 2	KCNTSTITQA			ILKCNNETFN	
00BW1686 8	NCNTSSISQA			ILKCRNKTFN	GTGPCNNVST
00BW1759 3	NCNTSAVTQA			ILKCNNKTFN ILKCNNKTFN	
00BW1773 2	NCNTSAITQA			ILKCNNKTFN	GAGPCNNVST
00BW1783 5	NCNTSAITQA			ILKCNNCTFN	GTGPCNDVSS
00BW1795 6	NCNTSTITQA			ILKCNNKTFN	GTGPCNNVST
00BW1811 3	NCNTSALTQA			ILKCNNKTFN	GKGPCNNVST GTGPCTNVST
00BW1859 5	NCNTSAITQA			ILKCNDKTFN	
00BW1880 2	NCNTSAITQA			ILKCNNKTFN	GTGPCQNVST
00BW1921 1	NCNTSAITQA		THYCAPAGYA	ILKCNNKTFN	GTGPCNNVST
00BW2036 1	NCNTSAITQA			ILKCNNKTFN	
00BW2063 6	NCNTSTITQS		IHYCAPAGYA	ILKCNNETFN	GTGPCNNVST
00BW2087 2	NCNTSAITQA			ILKCNNKTFN	GTGPCNNVSI
00BW2127_2	NCNTSAITQA			ILKCNNKTFN	GTGPCNNVST
00BW2128_3	NGNTSALTQA			ILKCNNKTFN	GTGPCNNVST
00BW2276_7	NCNTSAITQA			ILKCNNKTFN	GTGPCQNVSP
00BW3819 <u></u> 3	NCNTSAVTQS	CPKISFDPIP	IHYCAPAGYA	ILKCNNKTFN	GTGPCNNVST
00BW3842_8	NCNTSAITQA	CPKVSFDPIP		IIKCNNKTFN	
00BW3871_3	NCNTSAISQA		IHYCAPAGYA	ILKCNNKTFN	GTGPCONVST
00BW3876_9	HCNTSTITQA	CPKVSFEPIP	IHYCAPAGYA	ILKCNDKTFS	GTGPCLNVST
00BW3886_8	NCNTSTITQA			ILNCNNKTFN	GTGPCQNVST
00BW3891 <u></u> 6	NCNTSAITQA	CPKVSFDPIP		ILKCNNKTFN	GTGPCNNVST
00BW3970_2	NCNTSKVTQA		LHYCAPAGYA		GTGPCNNVST
00BW5031_1	SCNTSTITQA	CPKVSWDPIP		ILKCNNKTFN	GTGPCNNVST
96BW01B21	NCNTSAISQA			ILKCNNRTFN	GTGPCNNVST
96BW0407	NCNTSTITQA		IHYCAPAGYA	ILKCNNKTFN	GLGPRNNVST
96BW0502	NCNTSAITQA		IHYCTPAGYA	ILKCNNQTFN	GTGPCNNVSS
96BW06_J4	NCNTSTISQA			ILKCNNKTFS	GTGPCONVST
96BW11_06	NCNTSTITQS			ILKCNNKTFN	GTGPCNNVST
96BW1210	NCNTSTITQA		IHYCAPAGYA	ILKCNNKTFN	GTGPCTNVST
96BW15B03	NCNTSAITQA			ILKCKNNTFN	GTGPCQNVST
96BW16_26	NCNTSALTQA			ILKCNNKTFN	GTGPCNNVST
96BW17A09	NCNTSTITQA			ILECNNKTFN	GTGPCTNVST
96BWM01_5	NCDTSTITQS			ILKCNNKTFN	GTGPCNNVST
96BWMO3_2	NCNTSSITQA		IHYCAPAGFA	ILKCNNKTFN	GTGPCQNVST
98BWMC12_2	NCNTSAITQA		IHYCAPAGYA	ILKCNNKTFN	GTGPCNNVST
98BWMC13_4	NCNTSTITQS	CPKVSFDPIP	IHYCAPAGYA	ILKCNNKTFN	GIGPCNNVST
98BWMC14_a	NCNTSAISQA	CPKISFDPIP	IHYCAPAGYA	ILKCNNKTFN	GTGPCQNVST
98BWM014_1	NCNTSTVKQA	CPKVTFDPIP	IHYCAPAGYA	ILKCNNKTFN	GTGPCNNVST
98BWMO18_d 98BWMO36_a		CPKVTFEPIP		ILKCNNKTFN	GTGPCNNVST
98BWM036_a 98BWM037_d	NCNTSTLTQA		IHYCAPAGYA	ILKCNNKTFN	GTGPCNNVST
99BW3932 1	NCVTSATAOT		IHYCTPAGYA	ILKCNNKTFN	GKGPCNNVST
99BW4642_4	NCYTSAIAQT NCNTSAITQA		IHYCAPAGYA	ILKCYNKTFN	GTGPCKNVST
99BW4745_8	NCNTSAVIQA		THYCAPAGYA	ILKCNNKTFN	GTGPCQNVST
99BW4754 7	NCNTSAITQA		IHYCAPAGYA	ILKCNNETFN	GTGPCNNVST
99BWMC16_8	NCNTSAITQA		THYCADAGYA	ILKCNNETFN	GTRPCNNVST
A2_CD_97CD	SCNTSVITQA		THYCAPAGYA	ILKCNNKTFN	GIGPCNDVST
A2_CY_94CY		CPKVTFEPIP	THYCNDACEN	ILKCKDKEFN	GKGSCSNVSS
A2D97KR	HCDTSTITQA			ILKCKDPRFN	GTGSCKNVSS
A2G_CD_97C	KCNTSTITQA		THYCAPAGEA	ILKCKDPEFN	GTGPCKNVSS
A_BY_97BL0	NCNTSAMTQA		TYVCADAGEA	ILKCKDPKFN ILKCXDTNFT	GIGECENVSS
A KE Q23 A	NCNTSAITQA		THYCTDAGEA	ILKCKDEGFN	CTCL CIOTICS
A_SE_SE659	NCNTSAITQA		IHYCADAGRA	ILKCKDDAFN	GTGTCKNA2.
A SE SE725	NCNTSAITQA		IHYCAPAGEA	ILKCRDKEFN	GTGTCTMVST
A_SE_SE753			IHYCAPAGFA	TIKCMDKEEN	CTGFCNNVST
_ <del></del>		· · ·		WDIGH	CICHCIATAADI

* 00 0005	17 <i>(</i> 1)7 <i>m</i> (2) 7 <i>m</i> (2)				
A_SE_SE853		CPKVTFEPIP		ILKCRDENFN	GTGPCKNVST
A_SE_SE889	NCNTSAITQA		IHYCAPAGFA	ILKCNDKEFN	GTGPCKNVSS
A_SE_UGSE8	NCNTSAITQA			ILKCNEDEFN	
A_UG_92UG0	NCNTSALTQA		IHYCAPAGYA	ILKCNDKEFN	GTGLCKNVST
A_UG_U455_	NCNTSTITQA		IHYCAPAGFA	ILKCKDPEFN	GKGPCRNVST
AC_IN_2130	NCNTSAITQA		IHYCTPAGYA	ILKCNEETFN	GTGPCKNVST
AC_RW_92RW	NCNTSAITQA		INYCAPAGFA	ILKCKDKKFN	GTGPCKNVST
AC_SE_SE94	NCNTSAITQA		IHYCAPPGFA	ILKCKDAKFN	GIGPCNNVST
ACD_SE_SE8	NCNTSAITQA		IHYCAPAGFA	ILKCNNKEFN	GTGPCKNVST
ACG_BE_VI1	NCNTSAITQA		IHYCAPAGFA	ILKCNNKTFN	GTGPCNNVST
AD_SE_SE69	NCNTSAIKQA		IHYCAPAGFA	ILKCKDTEFN	GTGPCKNVST
AD_SE_SE71	NCNTSAITQA			ILKCKDEKFN	
ADHK_NO_97	NCNTSVITQA		IHYCAPAGFA	ILKCNNKTFS	GTGPCKNVST
ADK_CD_MAL	NCNTSVITQA		IHYCAPAGFA	ILKCNDKKFN	GTEICKNVST
AG_BE_VI11	NCNSSTIKQA		IHYCAPAGFA	ILRCRDKKFN	GTEPCKNVST
AG_NG_92NG	NCNVSTIKQA		IHYCAPAGFA	ILKCRGKNFT	GTGQCKNVSS
AGHU_GA_VI	HCNTSTITQA		IHYCAPAGFA	ILKCKDKAFN	GTGPCKNVST
AGU_CD_Z32	NCNTSAITQA		IHYCAPAGFA	ILKCRDEEFE	GKGPCRNVST
AJ_BW_BW21	KCNTTVIKQA		IHYCAPAGFA	ILQCNDKKFN	GTGPCKNVST
B_AU_VH_AF	NCNTSVITQA		IHYCAPAGFA	ILKCNNKTFN	GKGPCANIST
B_CN_RL42_	NCNTSVITQA		IHYCTPAGFA	IIKCNNKKFN	GTGPCTNVST
B_DE_D31_U	SCNTSVITQA		IHYCTPAGFA	MLKCKDKRFN	GKGQCKNVST
B_DE_HAN_U	HCNRSVITQA		IHYCAPAGFA	ILKCNDKKFN	GKGPCKNVST
B_FR_HXB2_	SCNTSVITQA		IHYCAPAGFA	ILKCNNKTFN	GTGPCTNVST
B_GA_OYI	HCNTSTITQA		MHYCTPAGFA	ILKCNDKKFN	GTGPCTNVST
B_GB_CAM1_	HCNTSVITQA		IHYCTPAGFA	IĻKCNDĶĶFN	GKGPCTNVST
B_GB_GB8_C	ECNASVITQA		IHFCAPAGFA	ILKCNNKTFD	GKGPCTNVST
B_GB_MANC_	SCNTSTITQA		IHYCTPAGFA	ILKCNNKKFD	GKGOCTNVST
B_KR_WK_AF	HCNTSVITQA		IHYCAPAGFA	ILQCNDKKFN	GTGPCSNVST
B_NL_3202A	SCNTSVITQA		IHFCTPAGFA	LLKCNDKKFN	GTGPCKNVST
B_TW_TWCYS	SCNASVIKQA		IHYCTPAGFA	IIKCNNKTFN	GTGTCTNVST
B_US_BC_L0	SCNTSVTTQA		IHYCAPAGFA	ILKCKDKKFN	GTGSCKNVST
B_US_DH123	SCNTSTLTQA	CPKVSFEPIP	IHYCAPAGFA	ILKCKDKKFN	GTGPCTNVST
B_US_JRCSF	SCNTSVITQA		IHYCAPAGFA	ILKCNNKTFN	GKGOCKNVST
B_US_MNCG_	SCNTSVITQA		IHYCAPAGFA	ILKCNDKKFS	GKGSCKNVST
B_US_P896_	SCNTSVITQA		IHYCVPAGFA	MLKCNNKTFN	GSGPCTNVST
B_US_RF_M1	HCNSSVITQA	CPKVSFEPIP	IHYCTPAGFA	ILKCNDKKFN	GTGPCKNVST
B_US_SF2_K	HCNRSVITQA		IHYCTPAGFA	ILKCNNKTFN	GKGPCTNVST
B_US_WEAU1	NCKSSTITQA	CPKVSFEPIP	IHYCAPAGFA	ILKCNDKKFN	GKGPCKNVST
B_US_WR27_	HCNTSTITQA	CPKVSFEPIP	IHYCTPAGFA	ILKCNDKKFN	GTGOCKNIVST
B_US_YU2_M	SCNTSVITQA		IHYCAPAGFA	ILKCNDKKFN	GTGPCTMVGT
BF1_BR_93B	NCNTSTLTQA	CPKVSWDPIP	IHYCAPAGYA	ILKCNDKKFN	GTGPCRMVST
C_BR_92BR0	NCNTSAITQA	CPKVSFDPIP	IHYCAPAGYA	ILKCNNKTFN	GTGPCNNVST
C_BW_96BW0	NCNTSTITQA	CPKVTFDPIP	IHYCAPAGYA	ILKCNNKTFN	GSGPCNNVST
C_BW_96BW1	NCNTSTITQS	CPKVSFDPIP	IHYCAPAGYA	ILKCNNKTFN	GTGPCNNVST
C_BW_96BW1	NCNTSTITQA	CPKVSFDPIP	IHYCAPAGYA	ILKCNNKTFN	GTGPCTNVST
C_BW_96BW1	NCNTSAITQA			ILKCKNNTFN	GTGPCONVST
C_ET_ETH22	NCNTSTITQA	CPKVSLDPIP	IHYCAPAGYA	ILKCRDKTFT	GTGPCHNIVST
C_IN_93IN1	NCNTSAITQA		IHYCAPAGYA	ILKCNNKTFN	GTGPCMMVST
C_IN_93IN9	NCNTSAITQA		IHYCTPAGYA	ILKCKDKTFN	GTGPCHNVST
C_IN_93IN9	NCNTSAITQA		IHYCTPAGYA	ILKCNEKTFN	GTGT.CONT/ST
C_IN_94IN1	SCNTSVITQA			ILKCNDKTFN	GTGDCDMVGT
C_IN_95IN2	NCNTSALTQA		IHYCAPAGYA	ILKCNNKTFN	CLCLCLCTANGE
CRF01_AE_C	HCNTSVIKQA		IHYCTPAGYA	ILKCNEKNFN	CTGECTHASI
CRF01_AE_C	HCNTSVIKQA		IHYCAPAGYA	ILKCNDKNFN	GTGFCVNASS
CRF01_AE C	HCNTSVIKQA		IHYCAPAGYA	ILKCNDKNFN	GTGECKNVSS
CRF01 AE T	NCSTSVIKQA		THYCTDACV	ILKCNDKNFN	GIGLCKKASS
CRF01_AE_T	NCNTSVIKQA		THYCTDAGVA	ILKCNDKNFN	GIGECKNVSS
CRF01 AE T	NCNTSVIKQA	CPKVSFDPTP	THYCTDAGVA	IIKCNDKNFN	GIGECKNVSS
CRF01 AE T			IHYCTPAGYA	T T V C W D LYNE IN	GIGPCKNVSS
CRF01 AE T	NCNTSVIKOA	CPKISEDDIP	IHYCTPAGYA	TI PONTOTONO	GTGPCKNVSS
	· zaty		AILUMILL	THYCNDKNEW	GIGPCKNVSS

CRF01_AE_T	NCNTSVIKQA	CPKVSFDPIP	IHYCTPAGYA	ILKCNDKNFN	GTGDCKATICC
CRF02_AG_F		CPRVTLEPIP		ILKCNDKKFN	GTGT.CKMVSS
CRF02_AG_F		CPKVTFEPIP	IHYCAPAGFA	ILKCNDKKFN	GTGDCKNT/CT
CRF02_AG_G		CPKVSFEPIP	IHYCAPAGFA	ILKCKDRNFN	GTGPCONTIGT
CRF02_AG_N		CPKVSFEPIP	IHYCAPAGFA	ILKCKDKGFN	GTGPCVNT/CT
CRF02_AG_S		CPKVSFEPIP	IHYCAPAGFA	ILKCNDEKFN	GTGFCKWVGT
CRF02_AG_S		CPKVSFEPIP	IHYCAPAGFA	ILKCNEKDFS	GIGECKWASI
CRF03_AB_R		CPKISFEPIP	IHYCAPAGFA	ILKCNDKKFN	GTGDCTMVST
CRF03_AB_R	SCNTSVVTQA	CPKISFEPIP	IHYCAPAGFA	ILKCNDKKFN	GTGDCTMVST
CRF04_cpx_		CPKVSFEPIP	IHYCAPAGFA	ILKCNEKNFT	GI.GDCTMVS1
CRF04_cpx_	SCNTSNHKQA	CPKVTLEPNS	HTLLCPGWFC	DLKCNDKNSP	GI.GGCTWGD
CRF04_cpx_		CPKIKFEPIP	IHYCAPAGFA	ILQCNEKRFN	GSGDCKWWSP
CRF05_DF_B		CPKVSWDPIP	IHYCAPAGYA	ILKCNEKKFS	GTGDCKATIGT
CRF05_DF_B	NCNTSTIKQA	CPKVCWDPIP	IHYCAPAGYA	ILKCKEKRFN	CTCPCKATICT
CRF06_cpx_		CPKVSFEPIP	IHYCAPAGFA	ILKCRDKDFN	GTGPCKMTCT
CRF06_cpx_		CPKVTFEPIP	IHYCAPAGFA	ILKCRDKNFN	GTGPCKMVST
CRF06_cpx_		CPKVSFEPIP	IHYCAPAGFA	ILKCRDKNFN	GTGTCKWKST
CRF06_cpx_		CPKVSFEPIP	IHYCAPAGFA	ILKCRDKNFN	GLG CIGIVS I
CRF11_cpx_	NCNVSTIKQA	CPKVTFEPIP	IHYCAPAGFA	ILKCRDKEFN	CTCDCKMICT
CRF11_cpx_	NCNVSAVKQA	CSKVTFEPIP	IHYCAPAGFA	ILKCRDKEFN	GTGPCKMNgm
D_CD_84ZR0		CPKVSFEPIP	IHYCAPAGFA	ILKCNDKRFN	GTGPCKMTGC
D_CD_ELI_K		CPKVSFEPIP	IHYCAPAGFA	ILKCRDKKFN	GTGDCTMT/CT
D_CD_NDK_M		CPKISFEPIP	IHFCAPAGFA	ILKCRDKKFN	GTGDCSMVST
D_UG_94UG1	NCNTSAITQA	CPKMTFEPIP	IHYCAPAGFA	ILKCNEKKFN	GTGDCKNT/GT
F1_BE_VI85	NCNTSTITQA	CPKVSWDPIP	IHYCAPAGYA	ILKCNDKRFN	GTGPCKNT/ST
F1_BR_93BR	NCDASTITQA		IHYCAPAGYA	ILKCNEKNFT	GTGSCKNTVST
F1_FI_FIN9	TCNTSTITQA	CPKVSWDPIP	IHYCAPAGYA	ILKCKDKRFN	GTGDCDMVgm.
F1_FR_MP41	NCNTSTIKQA	CPKVSWDPIP	IHYCAPAGYA	ILKCRDPRFN	GTGPCKNWST
F2_CM_MP25	NCNTSTLTQA	CPKVSFDPIP	IHYCAPAGFA	ILKCNNKTFN	GTGT.CDMVST
F2KU_BE_VI	NCNTSAITQA	CPKVSFEPIP	IHYCAPAGFA	ILKCNEKEFN	GTGDCKNWgr
G_BE_DRCBL	NCNVSTIKQA		IHYCAPAGFA	ILKCVDKKFN	GTGTCMMUST
G_NG_92NG0	HCNVSTIKQA	CPKVNFDPIP	IHYCAPAGFA	ILKCRDKEYN	GTGDCKMVST
G_SE_SE616	HCNVSTIKQA		IHYCAPTGFA		GTGPCKNVST
<b>H_BE_VI991</b>	NCNTSVIKQA	CPKVSFEPIP	IHYCAPAGFA		GTGPCTNVST
<b>H_BE_VI997</b>	NCNTSVITQA	CPKVSFDPIP			GTGPCTNVST
H_CF_90CF0	NCNTSVITQA	CPKVSFEPIP	IHYCAPAGFA	ILKCNNKTEN	GTGLCTNVST
J_SE_SE702	NCNTSVIKQA		IHYCAPAGFA		GTGPCKNVST
J_SE_SE788	NCNTSVIKQA	CPKVSFQPIP	IHYCAPAGFA	ILKCNDKNFN	GTGSCKNVST
K_CD_EQTB1	NCNTSTVTQA	CPKVSFEPIP	IHYCAPAGFA		GTGPCTNVST
K_CM_MP535	NCNTSTITQT	CPKVTFEPIP			GTGPCKNVST
N_CM_YBF30	NCNTTAVTQA			=:	GNGSCTNVST
O_CM_ANT70	NCNSTTITQA				GTGTCRNITV
O_CM_MVP51	NCNSTIIKQA			-· - <del>-</del> -	GTGLCHNISV
O_SN_99SE_	NCNSTTIKQA			IFKCNSTEFN	CLCDC/INILUA CLGDCIIMITOA
O_SN_99SE_	NCNSTTIKQT			İFKCNNTGFN	
U_CD83C	NCNTSTITQA		IHYCAPAGFA	ILKCNDKKEM	CLCDCKW16w
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	301				
00BW0762 1	VOCTHGIKPV	VSTOLILINGS	S I.SPP CIVID	SENITNNAKT	350
00BW0768_2	VOCTHGIKPV	VPTOLLINGS	S I'VED BILLE	SENTINNAKT SEALTNNAKT	
00BW0874 2	VOCTHGIKPV	VSTOLLLNGS	. IVER BILIN	SEALTNNAKT SENLAKNDKT	
00BW1471 2	VLCTHGIKPV	VSTOLLINGS	TOPO PINTO	SENLAKNOKT SENLTONAKT	
00BW1616 2	VOCTHGIKPV	VSTOLLINGS	LYBE BILLE	. SENLTDNAKT . SENITNNAKI	
00BW1686 8	VOCTHOTKPV	VSTOLLINGS	TABC BITIN	SENITNNAKI SENMTDNVKP	IIVHLNETVD
00BW1759 3	VOCTHETED	SOMMETTIONS	HARG.ELLIR	SENMTDNVKP	IIVHLNESVE
00BW1773 2	VOCTHGTKDV	SOMULITATION Y	TAEE.QIIIR	SENMTNNAKT	IIVHTKKЪAÕ
00BW1783 5	VOCTRGIED	SOMUTIONS	LAEK.EIIIR	SENLTNNAKI	IIVHLKDPVN
00BW1795 6	VOCTHOTICEV	SDNUTTINGS	LAEE.EIIIR	SENLTNNVKT	IVVHLNESIQ
00BW1811 3	VOCTUGICA	SOMMETTONS	LAEG.EIIIR	SKNLTDNART	IIVHLNESVQ
00BW1859 5	VOCDUCTED	SDMTTTACE	LAKE.DIIIR	SENLTDNVKT	IIVHLNESVE
00BW1880_2	VOCTUGIREV	SOMMETION	LAEE.EIIIR	SENIEDNVKT	IIVHLNESIE
00BW1921 1	VOCTUGIREV	SOMUTIONS	LAEE.BIVIR	FKNITNNAKI	IIVQLNTSVG
00BW2036 1	VOCTUGINEV	VSTQLLLNGS	LAEE.GIIIR	SENLTDNAKT	ITVQLDQAVE
00BW2063 6	VOCTUGIREV	VSTQLLLNGS		SENLADNAKT	IIVHFNESVE
00BW2087_2	VOCTUGIATION	VSTQLLLNGS		SKNITDNVKT	IIVHLNEAVE
00BW2127 2	VOCTUGINEV	VSTQLLLNGS		SENLTNNAKT	IIVHLNDSVE
00BW2128 3	ACTUGINED	VSTQLLLNGS	~~ ~~~	SENLTNNAKI	IIVHLKEAIN
00BW2276_7	ACTUGINA	VSTQLLLNGS		SENLTNNAKT	IIVÕTKEDAK
00BW3819 3	ACTUGINA	VSTQLLLNGS	,	SENLTNNVKT	IIVHLNKSVE
00BW3842_8				SENLTNNVKT	IIVHLNESVE
00BW3871 3	AGCINGIADA	VSTQLLLNGS VSTQLLLNGS		SKNLSDNAKI	IIVHLNESVG
00BW3871_3	AGCIUGIKAA	ASTOTPTNGS		SENLTNNAKT	IIVHLNESVK
.00BW3886 8	TOCTHGTKPV	VSTQLLLNGS		SENLTNNIKT	IIVHLNDSVQ
00BW3891 6	ACCINGINA	VSTQLLLNGS		SENLTNNAKT	IIVHLNESIE
00BW3970 2		VSTQLLSNGS		SENLTNNVKT	IIVHLNESVE
00BW5031 1	TOCHRETKEN	VSTQLLLNGS		SENMTNNAKT	IIVHLNESIE
96BW01B21	ACCINGINA	VSTQLLLNGS		SENISDNAKT	IIVHLNESVE
96BW01621	AGCIHGIKDA	VSTQLLLNGS		SENLTDNVKT	IIVHLNESIE
96BW0502	AGCINGIKA	VSTQLLLNGS	LAEE EIIIR	SENLTDNAKI	IIVHLNESVR
96BW06 J4	VQCAHGIKPV	VSTQLLLNGS		SENLTNNAKI	IIVQLNKPVK
96BW11 06	VQCTHGTKPV	VSTQLLLNGS		SGNVTNNAKT	IIVHLNESVE
96BW11_06		VSTQLLLNGS		FKNITNNAKT	IIVHLNESVE
96BW15B03		VSTQLLLNGS			IIVHLNKSVE
96BW16 26	VQCIHGIKPV	VSTQLLLNGS	LAEG.EIIIR	SKNLSNNAYT	IIVHLNDSVE
96BW17A09	VQCTHG1KPV	VSTQLLLNGS		SENLTNNAKT	LIVHLNESVE
96BWMO1 5		VSTRLLLNGS	LAEE.EIIIR	SENLTNNAKI	IMVQLNESIE
96BWMO1_5	VQCTHGIKPV	VSTQLLLNGS	LAEK.EIIIR	SKNITDNVKT	IIVHLNESVE
98BWMC12 2	VQCTHGIKPV	VSTQLLLNGS	LAEE.EIIIR	SENLTDNAKT	IIVHFNESVQ
98BWMC12_2	VQCTHGIKPV	VSTQLLLNGS	LAEE.EIIIR	SENLTNNVKT	T TITTE ATT
98BWMC14 a	VQCTHGIKPV	VSTQLLLNGS	LAEK.EIVIR	SENLINNVKT	IIVHLNQSVQ
98BWM014 1	ASCITIGITION	APINTITINGS	LAEE.EVVIR	ייא מזמחיוי דמים צייי	TTUOI PROTOS
98BWM018_d	AGCTUGTUEA	APTOTOMGR	LAEK.EIIIR	SENTIMATEUR	IIVHLNEPVE
98BWM036_a	ACCINGINDA	ARIGULLAR	LAEE.EIIIR	SKNTTWMAMT	IIVQLKDPVD
98BWM037_d	IQCINGIRPV	VSTQLLLNGS	IAEE.EIIIR	SENTATIONART	IIVHLKDPID
99BW3932 1	ACCIHCINDA	VSTQLLLNGS	IAEE.EIIIR	SENTTWHERT	IIVQLNQSIE
99BW4642_4	VQCTHGTKPV	ARLOTTINGS	LAEE.EIVIR	SENTANNAKA	IIVHLNESIE
99BW4745_8	VQCTHGTKPV	VSTQLLLNGS	LAEG.EIIVR	SENTATINGER	IIVHLDKPVG
	VQCTHGIKPV	VSTQLLLNGS	LAEK.EIIVR	SENTATATA	IIVQLKQSVG
99BW4754_7	VQCTHGTKPV	VSTQLLLNGS	RAEK.EVVIR	AEST.TDMAKTI	IIVHLKDSVQ
99BWMC16_8	VOCTHGIKPV	VSTQLLLNGS	LAEE.DIIIR	SKNTTDMAKT	IIVHLNESVÑ
A2_CD_97CD	VQCAHGIRPV	ASTQLLLNGS	LAEG.KVMIR	SENTTONARM	IIVQFNKPVP
A2_CY_94CY	ACCINGTED	ASTQLLLNGS	LAEGGKTMTR	SENTIMANA	TTIOTHIA
A2D97KR	AGCIHGIKDA	ASTQLLLNGS	LAEGNETTE	SANTOINMENT	TTIOTHITTIO
A2G_CD_97C	ASCITIGITATA	A D T O T T T T T T T T T T T T T T T T T	LAKE FUMIR	איש מזמכויי דואים	IIVQFDKPVE
A_BY_97BL0	ASCITIVITION	ASTOTITINGS	LAEKX. VMTR	SENTTIONER	T TITOT MEDICAL
A_KE_Q23_A	ACCINCTEDA	ASTOFFINGS	LARKN TTTP	SENTONNIANT	T T1107 110 51-
A_SE_SE659	ASCITTOTIVEA	ASTOPPINGS	LAKGG. TRTR	CENTTONING	TITIOT DIFFER
A_SE_SE725	ACTITOTICE	A D T A TITING S	LAEEK.IMTR	SENTSDMART	TTUOT MOTOR
A_SE_SE753	AGCIHG TKDA	VSTQLLLNGS	LATKIMIR	SENITNNAKT	IIVQLVEPVE

» OB 08053	MOODIIGERDIA	MODOL I TARA			
A_SE_SE853	VQCIHGIRPV	VSTQLLLNGS	LAREK.VMIR	SENITNNVKN	IIVQLKEPVE
A_SE_SE889	VQCTHGIRPV	VSTQLLLNGS	LAETE.VMIR	AENITNNIKN	IIVQFNKSVE
A_SE_UGSE8	VQCTHGIRPV	VSTQLLLNGS	LAKEE. VRIR	SENISDNAKT	IIVQFTKPVE
A_UG_92UG0	VQCTHGIRPV	VSTQLLLINGS	LAEGK.VMIR	SENITNNVKN	
A_UG_U455_	VQCTHG1KPV	VSTQLLLNGS	LAERE.IRIR	SENFTNNAKT	IIVQLVNPVK
AC_IN_2130	VQCTHGIKPV	VSTQLLLINGS	LAEKE.VIIR	SENITNNVKN	IIVQLAEPVR
AC_RW_92RW	VQCTHGIKPV	VSTQLLLNGS	LAEEE.IIIR	SENITNNAKT	IIVQLNETVQ
AC_SE_SE94	VQCTHGIKPV	ISTQLLLNGS	LSETG.VKIR	SENITNNAKT	IIVQLDEAVE
ACD_SE_SE8	VQCTHGIKPV	VSTQLLLNGS	LAEEE.IIVR	SENLTNNAKI	IIIQLNETVK
ACG_BE_VI1	VQCTHGIKPV	VSTQLLLNGS	LAEKVVIR	SENITNNAKT	IIVQFDSPVK
AD_SE_SE69	VQCTHGIKPV	VSTQLLLNGS	LA.EGKVRIR	SENITDNTKN	IIVQFTEPVT
AD_SE_SE71	VQCTHGIKPV	VSTQLLLNGS	LAKEE.VIIR	SENITNNAKN	IIVQFVKPVT
ADHK_NO_97	VQCTHGIKPV	VSTQLLLNGS	LAEKVIIR	SKNITDNTKN	IIVHFNESVQ
ADK_CD_MAL	VQCTHGIKPV	VSTQLLLNGS	LA.EEEIMIR	SENLTDNTKN	IIVQLNETVT
AG_BE_VI11	VQCTHGIKPV	VSTQLLLNGS	LA.EEEIIVR	SENFTNNAKV	IIVQLKEPIE
AG_NG_92NG	VQCTHGIKPV	VSTQLLLNGS	LA.EGEIVIR	SENLTDNAKV	IIVQLNKTIG
AGHU_GA_VI	VQCTHGIRPV	VTTQLLLNGS	LA.EGEIIIR	SENITENTKN	IIVQLNETVE
AGU_CD_Z32	VQCTHGIKPV	VSTQLLLNGS	LAEKE.VRIR	SENFSDNAKI	IIVQLAKPVN
AJ_BW_BW21	VQCTHGIKPV	VSTQLLLNGS	IA.EEEIIIR	SENITNNAKT	IIVQLNNTVE
B_AU_VH_AF	VQCTHGIRPV	VSTQLLLNGS	LA.EKEIVIR	SDNFTDNAKS	IIVQLNESVE
B_CN_RL42_	VQCTHGIRPV	VSTQLLLNGS	LA.EEEVVIK	<b>FSNFTDNARV</b>	IIVQLNESVE
B_DE_D31_U	VQCTHGIRPV	VSTQLLLNGS	LA.EEEVVIR	SDNFTDNAKT	IIVQLKESVE
B_DE_HAN_U	VQCTHGIRPV	VSTQLLLNGS	LA.EKEVVIR	SDNFTDNTKT	IIVHLNESVE
B_FR_HXB2_	VQCTHGIRPV	VSTQLLLNGS	LA.EEEVVIR	SVNFTDNAKT	IIVOLNTSVE
B_GA_OYI	VQCTHGIKPV	VSTQLLLNGS	LA.EEEVIIR	SSNFTNNAKI	IIVOLNKSVE
B_GB_CAM1_	VQCTHGIRPV	VSTQLLLNGS	LA.EKEVVIR	SENFTNNAKT	IIVQLKEPVE
B_GB_GB8_C	VQCTHGIRPV	VSTQLLLNGS	LA.EEKVVIR	SDNFTDNVKT	IIVQLKEAVE
B_GB_MANC_	IQCTHGIRPV	VSTQLLLNGS	LA.EEEVVLR	SDNFTDNAKT	IIVHLNESVE
B_KR_WK_AF	VQCTHGIRPV	VSTQLLLNGS	LA.EEEIVLR	SENFTNNAKT	IIVQLNASVE
B_NL_3202A	VQCTHGIRPV	VSTQLLLNGS	LA.EEEVVIR	SANFSNNAKT	IIVQLNESVA
B_TW_TWCYS	VQCTHGIRPV	VSTQLLLNGS	IA.EEEILIK	SENITNNAKT	IIIQLNKSVK
B_US_BC_L0	VQCTHGIKPV	VSTQLLLNGS	LA.EEEVVIR	SANFSDNAKT	IIVQLKEAVE
B_US_DH123	VQCTHGIRPV	VSTQLLLNGS	LA.EEEVVIR	SSNFTDNAKT	IIVQLNETVE
B_US_JRCSF	VQCTHGIRPV	VSTQLLLNGS	LA.EEKVVIR	SDNFTDNAKT	IIVQLNESVK
B_US_MNCG_	VQCTHGIRPV	VSTQLLLNGS	LA.EEEVVIR	SENFTDNAKT	IIVHLNESVQ
B_US_P896_	VQCTHGIRPV	VSTQLLLNGS	LA.EEDIVIR	SENFTDNAKT	IIVQLNESVV
B_US_RF_M1	VQCTHGIRPV	VSTQLLLNGS	LA.EEEVVIR	SENFTDNVKT	IIVQLNASVQ
B_US_SF2_K	VQCTHGIRPI	VSTQLLLNGS	LA.EEEVVIR	SDNFTNNAKT	IIVQLNESVA
B_US_WEAU1	VQCTHGIRPV	VSTQLLLNGS	LA.EEDIVIR	SENFTDNAKN	IIVQLNVSIE
B_US_WR27_	VQCTHGIRPV	VSTQLLLNGS	LA.EEEVVIR	SANFTNNAKT	IIVQLKESVE
B_US_YU2_M	VQCTHGIRPV	VSTQLLLNGS	LA.EEEIVIR	SENFTNNAKT	TTVOLNESVV
BF1_BR_93B	VQCTHGIKPV	VSTQLLLNGS	LA.EKDIIIR	SQNISDNAKT	TTVOLNVSVD
C BR 92BR0	IQCTHGTKPV	VSTQLLLNGS	LAEE.EIIIR	SKNLTDNVKT	TTVHIMEQUE
C_BW 96BW0	VQCTHGIKPV	VSTQLLLSGS	LAEE.EIVIR	SENLTNNAKI	TIVHIMESVE
C_BW_96BW1	VQCIHGIKPV	VSTPLLLNGS	LAEK.EIIIR	FKITTNNAKT	IIVHLNESVE
C_BW_96BW1	VQCTHGIKPV	VSTQLLLNGS	LAEE.EIIIR	SENTTONVKT	IIVHLNKSVE
C BW 96BW1	VQCTHGIKPV	VSTQLLLNGS	LAEGGEIIIR	SKNISNNAYT	IIVHLNDSVE
C_ET_ETH22	VQCTHGIKPV	VSTOLLLNGS	IAEG.ETIIR	PENTANNAKT	IIVQLNESVE
C_IN_93IN1	VQCTHGIKPV	VSTQLLLNGS	LAEG.EIIIR	SENTANNVKT	IIVHLNQSVE
C_IN_93IN9	VQCTHGIKPV	VSTOLLLNGS	LAEG.EIIIR	SENTATIONART	IIVHLNQSVE
C IN 93IN9	VQCTHGIKPV	VSTOLLINGS	LAEG.EIIIR	SENT TOWKT	IIVHLNQSVQ
C IN 94IN1	VOCTHGIKPV	VSTOLLLNGS	LSEG.EIIIR	SEMI.TMMVKT	IIVHLNKSVE
C_IN_951N2	VOCTHGIKPV	VSTOLLINGS	LAEG.GIIIR	SEMI TIME VICE	
CRF01 AE C	VOCTHGIKPV	VSTOLLINGS	LAEE.DIIIR	SEMI TIME VILL	IIVHLNUPVE
CRF01 AE C	VOCTHGIKPV	VSTOLLLINGS	LAEE.EIIIR	SEDI-MONTANA TO	IIVHLNKSVE
CRF01 AE C	VOCTHGIKPV	VSTOLITINGS	LAEE.EIIIR	CENT TOWART	IIVHLNKSIE
CRF01_AE_T	VOCTHGIKPV	VSTOLLLINGS	LAEE.EIIIR	CEMITHINAVI.	IIVHLNKSVE
CRF01 AE T	VOCTHEIKPV	VSTOLLINGS	LAEE.EIIIR		IIVHLNKSVE
CRF01 AE T	VOCTHOTEDV	VSTOLLLINGS	LAEE.KIIIR	CENT ONLY YOU	IIVHLNKSVE
CRF01 AE T	VOCTHOTEDU	VSTOLLLNGS	TAPE DITIE	SENLTNNAKT SENLTNNAKT	IIVHLHESVE
CRF01 AE T	VOCTHGTKDV	VSTOTITINGS	TARE ETTIK	SEDLTNNAKT SEDLTNNAKT	TIVHLNKSVE
<u></u>	- SCTITOTIVE A	* 0 1 AUDUMG2	nuce.etttK	SEULTNNAKT	TIAHTWKZAE

CRF01_AE_T	VQCTHGIKPV	<b>VSTQLLLNGS</b>	LAKE.EIIIR	SENLTNNAKT	IIVHLNKSVK
CRF02_AG_F	AGCIUGIVEA	AOTATITIOS	LAKEE WYTR	יאי אזארידיאראז אי	TTTTOTTT
CRF02_AG_F	VQCTHGIKPV	VSTQLLLNGS	LAEER, VVTR	SENTININA	T TYPOT tampyon
CRF02_AG_G	VQCTHGIKPV	VSTQLLLNGS	LAREE, IVIR	SENTTANDER	TIMOT AMBUM
CRF02_AG_N	VQCTHGIKPV	<b>VSTQLLLNGS</b>	LAEGR . VVTP	SENTTAINIAPI	TITLOT BATRATE
CRF02_AG_S	VQCTHGIKPV	VSTQLLLNGS	LAEEE.IVIR	SENETWNAKT	TTVOLUECTO
CRF02_AG_S	VQCTHGIKPV	VSTQLLLNGS	LAEGD IVIR	SENTSMMAKT	T TWO T NEW DYWA
CRF03_AB_R	VQCTHGIKPV	VSTQLLLNGS	LA. EEEVVIR	SVNETDNITKI	TTUOLERDUR
CRF03_AB_R	VQCTHGIKPV	VSTQLLLNGS	LA EFEVUTP	SWIETINITET	TIMOT KEDYER
CRF04_cpx_	VRCTHGIKPV	VSTQLLLNGS	LA. TEEVVIR	SKNTTTINTERA	TIMOT ATCANCE
CRF04_cpx_	VQCTHGIKPV	VSTQLLLNGS	LA. TGGVVTR	SKNETDNDKM	IIVQLDKAVK
CRF04_cpx_	VQCTHGIKPV	VSTQLLLNGS	LS . TEGVVI.R	SKNETDNTKN	TTVOTATIATE
CRF05_DF_B	VQCTHGIKPV	VSTQLLLNGS	LA.KEGITTR	SONTSDNAKN	IIVHLNESVH
CRF05_DF_B	VQCTHGIKPV	VSTQLLLNGS	LA.EESITTR	SONTTONTER	IIVHLNESVA
CRF06_cpx_	VQCTHGIKPV	VSTQLLLNGS	LA EGNITIK	TENTTONTENT	IIVQLNQPVE
CRF06_cpx_	AĞCLHĞİKBA	VSTQLLLNGS	LA.EEETTTK	SKNITTINTET	IIVQLNKSVE
CRF06_cpx_	VQCTHGIKPV	VSTQLLLNGS	LA.EDEIIIK	SENHTHNAKT	IIVQLNKTVQ
CRF06_cpx_	VQCTHGIKPV	VSTQLLLNGS	LA.EEEIIIK	TENTITONSKN	IIVQLNKIVQ
CRF11_cpx_	VQCTHGIKPV	VSTQLLLNGS	LA.EEKVKIR	SENFTNNAKT	IIVQFNNTVR
CRF11_cpx_	VQCTHGIKPV	VSTQLLLNGS	LA.EGEVRIR	SENLTNNAKT	IIVQLNSTVR
D_CD_84ZR0	VQCTHGIRPV	VSTQLLLNGS	LA EEEIVIR	SENLTNNAKI	IIVHLNOSVE
D_CD_ELI_K		VSTQLLLNGS	LA.EEEVIIR	SENLTNNAKN	IIAHLNESVK
D_CD_NDK_M		VSTQLLLNGS	LA.EEEIIIR	SENLTNNVKT	IIVQLNASIV
D_UG_94UG1	VQCTHGIKPV		LA.EEEIIIR	SENLTNNAKI	IIVQLNESVP
F1_BE_VI85	VQCTHGIKPV		LA.EEGIVIR	SQNISNNAKT	IIVHLNESVQ
F1_BR_93BR	VQCTHGIKPV	VSTQLLLNGS	LA.EGEIVIR	SQNISDNAKT	IIVHLNESVQ
F1_FI_FIN9	VQCTHGIRPV	VSTQLLLNGS	LS.EGGIIIR	SONTISDNAKT	IIVHLNESVQ
F1_FR_MP41	VQCTHGIRPV	VSTQLLLNGS	LA.EEDIIIR	SONTSDNAKT	IIVHLNESVQ
F2_CM_MP25	VQCTHGIKPV	VSTQLLLNGS	LA.EEKMIIR	SENTSDNTKT	IIVQFKNPVK
F2KU_BE_VI	VQCTHGIRPV	ISTQLLLNGS	LA.EKEIIIR	SGNTSDNTKN	IIVQLNETVE
G_BE_DRCBL	VQCTHGIKPV	VSTQLLLNGS	LA.EKDIIIS	SENTSDNAKU	IIVHLNRSVE
$G_NG_92NG0$	VQCTHGIKPV	VSTQLLLNGS	LA.EEDIRIR	SENFTDNTKV	IIVQLNNSIE
G_SE_SE616	VQCTHGIKPV		LA.EGKIKVR		IIVQLNKTVE
H_BE_VI991	VQCTHGIRPV	VSTQLLLNGS	LAEVEEVIIR	SKNITDNTKN	IIVQLNEPVQ
<b>H_BE_VI997</b>	VQCTHGIKPV	VSTQLLLNGS	LA.EGQVIIR	SKNISDNIKN	IIVQLDSPIE
H_CF_90CF0	VQCTHGIRPV		LA.EEQIIIR	TKNTSDNTKN	IIVQLKTPVN
J_SE_SE702	VQCTHGIKPV	VSTQLLLNGS	VA.EGDIIR		IIVQLNDTVE
J_SE_SE788	VQCTHGIKPV	VSTQLLLNGS	IA.EGDIIR		IIVQLNKTVE
K_CD_EQTB1	VQCTHGIKPV	VSTQLLLNGS	LA.EEEIIIR	SEDITKNTKN	TIVOLNEAME
K_CM_MP535	VQCTHGIKPV	VSTQLLLNGS	LA.EEEIITR	SENTTONTENT	T TMOT NUMBER
N_CM_YBF30	VQCTHGIKPV	ISTQLILNGS	LNTDGTVTR.	MUCHCM	T.T MODERATE T.T
O_CM_ANT70	AICIUGIKEL	A PLATT FING I.	LS.KGKIRMM	AKDITLEGGKM	T TUTT MOTE NO
O_CM_MVP51	ATCINGINEL	ASIGNTPUGL	LS.REKTRIM	CKNTTTPC A KNT	TTYPE SIME YAT
O_SN_99SE_	VICINGIAPL	ARIGITINGL	LS.EGNIRIM	GKNTSDNMKNT	TTUPE MOREST
O_SN_99SE_	AICIHGIKEL.	VSTQLILNGT	IS.EGKIRIM	GKNTSDTCKN	TTUTTMOTTM
U_CD83C	VQCTHGIRPV	VSTQLLLNGS	LSEE.EVIIR	SENITNNAKT	T LOOT WEALTH
		_			ナテ ヘ ざロエルロ。エ ヘ ヒ

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00BW0762_1	IVCTRPGNN.	.TRRSVRIG	PCOTEVATO DE COMPANIO
00BW0768_2	IECTRPNNN.	.TRKSIRIG	TROADCHISK
00BW0874_2	IVCTRPFNN.	.TRKSIRIG	TO THE TREATMENT OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPER
00BW1471_2	IVCTRPGNN.	.TRKSVRIG	DOOMENAME
00BW1616_2	IVCTRPNNN.	.TRKSMRIG	DOGGETTER TRUMPING
00BW1686_8	INCTRPNNN.	.TRKSIRIG	POODERSDIIGN IREARCHISK
00BW1759_3	IVCTRPNNN.	.TRRSVRIG	DOCUMENT OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF TH
00BW1773_2	ITCTRPNNN.	.TRKSIRIG	POORTING TROATCHISK
00BW1783_5	INCTRPGNN.	.TRKSVRIG	DOOTTINGDIIGD IRQANCNISA
00BW1795 <u>6</u>	IVCTRPNNN.	.TRKSVRLG	TOTAL TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP TRUMP
00BW1811 <u>3</u>	IVCTRPGNN.	.TRKSIRIG	DOOLDIIGD IRRAICIINE
00BW1859_5	IVCIRPNNN.	.TRKSIRIG	DOCUMENT TOD INVANCATION
00BW1880_2	IVCTRPNNN.	.TKKSMRIG	DOGGETTER TREAMCNITR
00BW1921_1	IECTRPNNN.	.TRKSIRIG.	DOCUMENT TO TROUBLE TROUBLESE
00BW2036_1	IECIRPNNN.	.TRKSIRIG.	DECITION TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES AND TROUBLES
00BW2063_6	IVCTRPGNN.	.TRKSVRIG.	DOGGETTE TREMMCNITE
00BW2087_2	IVCTRPNNN.	.TRKSIRIG.	TOD TREAMCNISE
00BW2127_2	IVCTRPNNN.	.TRTSIRIG.	TOTAL TOTAL TRUMPING
00BW2128_3	INCTRPNNN.	.TRKSIRIG.	TOTAL TRUMPING
00BW2276_7	IVCVRPNNN.	.TRKSVRIG.	DESCRIPTION IN CARCINISK
00BW3819_3	IKCTRPNNN.	.TRRSVRIG.	TREATCHISE
00BW3842_8	IVCTRPNNN.	.TRKSIRIG.	DOOT-115
00BW3871_3	ITCTRPNNN.	.TRESIRIG.	DESCRIPTION INCAMENTSE
00BW3876_9	IVCTRPNNN.	.IRKSVRIG.	7007
00BW3886_8	IVCVRPNNN.	.TRKSIRIG.	DOODELLE
00BW3891 <u>6</u>	IECTRPNNN.	.TRRSIRIG.	DCOTEVATO
00BW3970_2	IECIRPNNN.	.TRKSIRIG.	THE THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF T
00BW5031_1	IECRRPNNN.	.TGKSVRIG.	Dage ====================================
96BW01B21	INCTRPNNN.	.TRKSIRIG.	Dag
96BW0407	IECTGPNNN.	.TRKSMRIG.	.PGQTFYAAGEIIGK IRLAYCNISE .PGQTFYATGEIVGD IRQAHCNISE
96BW0502	IVCVRPNNN.	.TRKSVRIG.	DOOD-1
96BW06_J4	IVCTRPNNN.	.TRKSIRIG.	.PGQTFYATGEIIGD IRQAYCIINK .PGQTFYATDIIGD IRQAYCNVSK
96BW11_06	IVCIRPNNN.	.TRKSVRIG.	.PGQTFYATEAIIGN IREAHCNISE
96BW1210	IVCTRPNNN.	.TRKSIRIG.	.PGQTFYATGDIIGD IRQAHCNISK
96BW15B03	IVCTRPNNN.	.TRKGIRIG.	.PGQTFYATENIIGD IRQAHCNISA
96BW16_26	IVCIRPNNN.	.TRKSIRIG.	.PGQTFFATGDIIGD IRQAHCIING
96BW17A09	IVCTRPNNN.	.TRKSTRIG.	RGQTFYAMGRIIGD IRQAHCNISG
96BWM01_5	IECTRPGNN.	.TRRSVRIG.	.PGQAFYATGDIIGD IRAAHCNISE
96BWM03_2	INCTRPGNN.	.TRKSVRIG.	.PGQAFYATGDIIGD IRKAYCNISK
98BWMC12_2	IVCTRPNNN.	.TRKSMRIG.	.PGQIFYATGDIIGD IREAHCNISK
98BWMC13_4	IECTRPGNN.	.TRKSMRIG.	. PGQAFYATGEIIGN IRQAYCNINE
98BWMC14_a	IVCTRPNNN.	.TRKSIRIG.	.PGQTFYATGDIIGD IRQAHCNISE
98BWMO14_1	IVCTRPGNN.	.TRTSIRIG.	.PGQTFYATGDIIGD IRQAHCNISE
98BWM018_d	ILCVRPSNN.	.TRKSVRIG.	.PGQTFYATGDIIGD IRQAHCNISA
98BWM036_a	IVCTRPGNN.	.TRKSVRIG.	.PGQTFFATGDIIGD IRQAHCNISK
98BWM037_d	INCTRPSNN.	.TRKSIRIG.	.PGQAFYATNDIIGD IRQAHCNISE
99BW3932_1	IVCIRPNNN.	.TRKSIRIG.	.PGQTFYATGAIIGN IREAYCNISG
99BW4642_4	IVCIRPNNN.	.TRKSIRIG.	.PGQTFYATGDIIGN IKEAYCNIKE
99BW4745_8	IECIRPNNN.	.TRKSIRIG.	PGQTFYATGEIIGD IRKAHCTINK
99BW4754_7	INCTRPNNN.	.TRKSMRIG.	.PGQTFYATGEIIGD IROAHCNISR
99BWMC16_8	ITCTRPNNN.	.TRKSIRIG.	.PGQTFYATGDIIGD TROAMCGINY
A2_CD_97CD	INCTRPNNN.	TRKSIRFG.	.PGQAFYTNNNIIGD IRQAHCNISI
A2_CY_94CY		.TRKSIRFG.	.PGQAFYTNEIIGD IROAHCNINK
A2D97KR		.QRRSVRIG.	.PGRAFYTRQ TYTR.QAKGD IROAOCNISS
A2G_CD_97C		.TRKSIRFG.	.PGQAFYTNSIIGD IROAYCNISK
A_BY_97BL0		.TRTSIRIG.	.PGQTFYATGDVIXD IRKAYCMUSP
A_KE_Q23_A A_SE_SE659		.TRKSIRIG.	.PGQAFYATGDIIGD IROAHCMUTR
A_SE_SE659 A_SE_SE725		TRTRIHIG.	.PG.RSFYTGDIKGS IROAHCTVNR
A_SE_SE725 A_SE_SE753		TRTSIRIG.	.PGQAFYATGDITGD IROAHCNVSR
on_on/53	INCTRPNNN.	TRTSVPIG.	.PGKVFYATGEIIGD IRQAHCNVSK

A_SE_SE853		.TRKSIRIG		· · · · · EVIG	D IRQAHCNVSR
A_SE_SE889		.TRKSIRIG.	PGQAFYATO	DIIG	D IRQAYCDVNR
A_SE_UGSE8		.TRKSIRIG.	PGQAFYGMO	DIIG	O IRKAHCNVSR
A_UG_92UG0		.TRRSVRIG.	PGQTFYATG	DIIG	O IRQAHCNVSG
A_UG_U455_			SGQAFYVTG	KIIG	O IRQAHCNVSR
AC_IN_2130		.TRTSIRIG.	.PGQTFYTS.	NIIG	O IRQAHCNVSR
AC_RW_92RW		.TRKSVHIG.	· PGQAFYATG	DVIG	O IRQAYCTVNG
AC_SE_SE94	INCTRPGNN.	.TRRSVHIG.	PGQAFYATG	DITG	O IRKAHCIVNG
ACD_SE_SE8	INCTRPNNN.	.TRNSIRIG.	PGQAFYATG	AITGI	IRQAHCNVSR
ACG_BE_VI1	INCTRPGNN.	.TRKSVRIG.	PGQTFYATG	DIIG	IRQAHCNISG
AD_SE_SE69	INCTRPNNNT	.RK.SVRIG.	• PGQALYVTG	GIIGI	IRQAFCEVNR
AD_SE_SE71	INCTRPNNN.	.TRKSVHMG.	. PGKVFYATG	DIIG	IRQAHCNVSK
ADHK_NO_97	INCTRIANNT		PGQAFYAAE	PVIGI	IRQAHCNISE
ADK_CD_MAL	INCTRPGNNT	.RR.GIHFG.	. PGQALYTTG	IVGI	IRRAYCTINE
AG_BE_VI11	INCTRPNNNT		QAFYATG	DIIGD	IRQAHCNVSG
AG_NG_92NG	INCTRPNNNT		QAFYATG	EIIG	•••••••
AGHU_GA_VI	INCTRPNNNT		. PGRVIYATS	AITGI	IRQAHCNISK
AGU_CD_Z32	ITCMRPNNY.	.TRKSIHIG.	. PGRALYPEG	DIIGI	IROAHCMVSP
AJ_BW_BW21	IKCVRPANNT	RKGIHTGPG.	QVLYATG	AVVGD	IROAHCMUSP
B_AU_VH_AF	IHCMRPNNNT	.RK.GIYVG.	. PGRHIYATE	KIVG	IRQAHCNISR
B_CN_RL42_	IKCIRPNNNT	.RK.SIHLG.	. PGKAWYTTG	QIIG	TRODHOWI.cc
B_DE_D31_U	INCTRPNNYT	.SK.RIRIG.	.ARRAFYTKG	KIIG	IRQAHCNISG
B_DE_HAN_U	INCTRPNNNT	.RK.GIHIG.	. PGRAVYTTG	RIVG	TRIAHONTED
B_FR_HXB2_	INCTRPNNNT	.RK.RIRIQR	GPGRAFVTIG	KIGN	MRQAHCNISR
B_GA_OYI_	INCTRPNNNT	.RN.RISIG.	. PGRAFHTTK	QIIGD	TROAHCMT.cp
B_GB_CAM1_	INCTRLNNNT	.RK.SIAIG.	. PGRTVYATD	RIIGD	IRQAHCNLSS
B_GB_GB8_C	INCTRPNNNT	.RK.GÏYMG.	. PGRRFYTTG	RIIGD	IROAHCNISK
B_GB_MANC_	INCTRPSNNS	.RK.SIYIG.	. PGRRFHVTR	AVTGD	IROAHCNISK
B_KR_WK_AF	INCTRLNNNT	.RK.SIRIG.	. PGSTFYATG	AIIGD	IROAHCMISP
B_NL_3202A	INCTRPNNNT	.RK.GIHIG.	. PGKAFYATG	QIIGD	IROAHCNLSR
B_TW_TWCYS	INCTRPNNIS	KRR.SMHIG.	TGRVFYTQT	IGN	IROAHCNLSK
B_US_BC_L0	INCTRPNKKT	.RK.RITTG.	. PGRVYYTTG	EIVGD	IROAHCNUSE
B_US_DH123	INCTRPNNNT	.RK.GITLG.	.PGRVFYTTG	EIVGD	IRKAHCNISK
B_US_JRCSF	INCTRPSNNT	.RK.SIHIG.	.PGRAFYTTG	EIIGD	IROAHCNISP
B_US_MNCG_	INCTRPNYNK	.RK.RIHIG.	. PGRAFYTTK	NIIGT	IROAHCNISE
B_US_P896_	INCTRPNNNT	.RR.RLSIG.	. PGRAFYARR	NIIGD	IROAHCMISP
B_US_RF_M1 B_US_SF2 K		.RK.SITKG.	.PGRVIYATG	QIIGD	IRKAHCNISP
B_US_SF2_K B_US_WEAU1	INCTRPNNNT	.RK.SIYIG.	.PGRAFHTTG	RIIGD	IRKAHCNISP
B_US_WEAU1 B US WR27		.RK.KITLG.	.PGRVLYTTG	EIIGD	IRRAHCNLSR
		.RR.RIHIG.	. PGRAFYTDR	VGD	IROAYCNISG
B_US_YU2_M BF1_BR_93B	INCTRPNNNT	.RK.SINIG.	.PGRALYTTG	EIIGD	IROAHCNISK
C_BR_92BR0	INCTRPNNNT	RKSIPIG.	· PGRAFYTTG	EIIGD	IRKAHCMUSG
C_BW 96BW0	INCTRPNNN.	TRKSIRIG.	.PGQAFYATG	····EIIGD	IROAHCNISP
C_BW_96BW1	IVCTRPGNN. IVCIRPNNN.		.PGQTFYATG	EIIGD	IR AHCNISE
C_BW_96BW1		TRKSVRIG.	.PGQTFYATE	AIIGN	ISEAHCNISE
C BW 96BW1		TRKSIRIG.	. PGQTFYATG	DIIGD	IROAHCNISK
C ET ETH22		TRKGIRIG.	. PGQTFYATE	NIIGD	IROAHCNISA
C_IN_93IN1		TRESIRIG.	. PGQTFYATG	DIIGD	IROAHCNISE
C_IN_93IN9		TRKSIRIG.	. PGQTFYATG	DIIGD	IRQAHCNISR
C_IN_93IN9		TRKSIRIG.	. PGQTFYATG	···.EIIGD	IRQAHCNISK
C_IN_94IN1		TRESIRIG.	. PGQTFYATG	EIIGD	IRQAHCNISA
C_IN_95IN2		TRKSIRIG.	. PGQTFYATG	····EIVGN	IRQAHCNISK
CRF01_AE_C		TRKSIRIG.	.PGQTFYATG	····.DIIGD	IRQAHCNISE
CRF01 AE C		MRTSARIG.	. PGQVFYKTG	····SITGD	IRKAYCEING
CRF01_AE C		VRISARIG.	.PGRVFHTTG	···.NINGD	IRKAYCEINK
CRF01 AE T		MRTSVRIG.	. PGRVFYKTG	····SITGD	TRKAYCRING
CRF01_AE_T		MRTSMRIG.	. PGQVFYRTG		
CRF01_AE_T		IKISIIMG.	. PGQVFYRTG	···.DIIGD	TRKAYCETNG
CRF01 AE T		KRTRTSIG.	. QGRVLYRTG	· · · · · DITGN	IGKPYCETNG
CRF01_AE T		ERKKMIIG.	.PGKVFYSTG	···KITGD	IRKAYCUTNG
		TWIDITIE.	. PGRVFYRTG	···.DIIGN	IRKAYCEING

CRF01_AE_T	INCTRP.TI.	.YKKKTTMG.		DVIGD	
CRF02_AG_F	INCPRPNNN.	.TRKSVRIG.		DIIGD	
CRF02_AG_F	INCTRPNNN.	.TRKSVRIG.		DIIGD	
CRF02_AG_G	INCTRPNNN.	.TRKSVRIG.		GIIGD	
CRF02_AG_N	INCTRPNNN.	.TRKGVHIG.	. PGQAFYATG	DIIGD	IRQAHCNVSK
CRF02_AG_S	INCTRPGNN.	.TRKSVRIG.	.PGQTFYATG	DIIGD	IRQAHCNVSW
CRF02_AG_S	INCTRPSNN.	.TRKSVRIG.	. PGQTFYTTG	AVIGD	IRQAHCNVSR
CRF03_AB_R	INCTRPNNNT	.RK.GIHIG.	. PGRAFYATG	DITGD	IRQAHCNISI
CRF03_AB_R	INCTRPNNNT	.RK.GIHIG.	.PGRAFYATG	DIIGD	IRQAYCNISR
CRF04_cpx_	INCTRPGNNT	RKSVHIG.	. PGLTWYATG	EIIGD	IRQAHCNISG
CRF04_cpx_	INCTGLNNNT	GGSERIGIG.	. PGHTWYATG	NIVGD	IRQAHCNISG
CRF04_cpx_	INCTRPNNNT	RKGVHIG.	.PGKTWFATG	EVIGD	IRKAHCNISE
CRF05_DF_B	INCTRPNNNT	RKSIHLG.	. PGQAFYATG	DIIGD	IRKAHCNVSR
CRF05_DF_B	INCTRPNNNT	RKSIPLG.	. PGQAFYTTG	DIIGD	IRKAHCNVSG
CRF06_cpx_	IRCTRPGNNT	RKSISFGPG.		DIIGD	IROAHCNVSR
CRF06_cpx_	ISCSRPNNNT	RKSIHIGPG.		EIIGN	IRKAHCNVSR
CRF06_cpx_	IRCTRPSNNT	RKSIPLGPG.		DIIGD	
CRF06_cpx_	IKCTRPNNNT	RKSISFAPG.		DIIGD	
CRF11 cpx	INCTRPGNNT	RKSIHLGPG.		AIIGD	
CRF11 cpx	INCTRPNNNT	RKGIHIGPG.		DIIGD	
D_CD_84ZR0	INCTRPYKKE	.RQ.RTPIG.		YTTRI	
D_CD_ELI_K	ITCARPYQNT	.RQ.RTPIG.		SRSI	-
D CD NDK M	INCTRPYKYT	.RQ.RTSIG.		GKKKKTGY	_
D UG 94UG1	INCIRPYNNT	.RQ.STRIG.		VIGD	IROAHCNISG
F1_BE_VI85		RKGIHLG.		AIIGD	IRKAHCNISG
F1 BR 93BR	INCTRPNNNT	RKRISLG.		EIIGD	IRKAHCNVSG
F1 FI FIN9	INCTRPNNNT	RKSIRIG.		EIIGD	IRKAHCNISG
F1 FR MP41	INCTRPNNNT	RKSIHLG.		DIIGD	IKKAYCEING
F2 CM MP25		RRSIHIG.		EIIGD	TRKAHCNISE
F2KU BE VI	IVCIRPGNNT	RKSIRIG.		DIIGD	
G BE DRCBL	INCTRPNNNT	RRSVAIGPG.		EVIGD	IRKAHCNVSW
G NG 92NG0		RKSIPIGPG.		DIIGD	IROAHCNVSR
G SE SE616	INCTRPNNNT	MKRIRMGIGP		AIIGD	IROAHCNVTK
H BE VI991	INCTRTGNNT	RKSIRIG.		DIIGD	
H BE VI997	ITCTRPNNNT	RKGIHFG.		DIIGN	
H CF 90CF0	ITCTRPNNNT	RTSIHLG.		DIIGD	
J SE SE702		RKGIHMGPG.		EIIGD	IRKAYCNISR
J SE SE788		RKGIHMGPG.		EIIGN	
K_CD_EQTB1		RKSIHIG.		DIIGD	
K CM MP535		RKSIHMG.		DIIGD	
N CM YBF30	INCTRPGNN.	.TGGQVQIG.		KIVGD	
O CM ANT70	MTCERP.QI.	.DIQEMRIG.	. PMAWYSMG	IGGTAGNS	SDVVCKAVIV
O CM MVP51	MTCIREGIA.	.EVQDIYTG.		LKRSNNTSPR	
O SN 99SE	MTCVROGNO.	.SVOEIOIG.		LAQE.GKPNN	
O SN 99SE	MTCERPGNQ.	.TVQKILTG.		LKNNLTN	
U CD 83C	INCTRPGSDK	-		GI	
			. POICE TAING		TOOMUCITIE

	401				
00BW0762_1	401 TKWNKTT.SPT	GEKLKEHFPN			450
00BW0768 2	EKWNSTLOGV	REKLEKHFPN			I TTHSFNCRGE
00BW0874_2	QKWNKTLEOV	GKKLAEHFPN	KNITFE		
00BW1471_2	SNWNSTLOOV	ARKLEKYFPN	KTITFN		
00BW1616_2	TKWENTLHMV	SEKLKENFPN	KTIVFN		
00BW1686_8	SKWNETLOKV	KKKLGEHFPD	KNITFE		
00BW1759_3	GEWNETLMEV	SKELRKYFPN	KNITFA		
00BW1773_2	AQWNKTLQEV	GAKLEEHFPN	KTIKFN.		
00BW1783_5	KAWNKTLHRV	SEXLKEHFPN	KTIKFT.		
00BW1795 <u>6</u>	SKWITTLHRV	SEKLKEHFPN	KATNET	. QPKGGDLE	
00BW1811 <u>3</u>	TNWNKTLQMV	SEKLQQHFPN	KTIKFD.	KHSGGDLE	
00BW1859_5	EEWNKTLQGV	EEKLKEHFPN	KKTTFK		
00BW1880_2	DVWRKTLFNV	SNKLKEYFPK	RNITFN.		
00BW1921_1	GAWNKTLQKV	GEELRKHFPN	KTIQFN.	.SSSGGDLEI	
00BW2036_1	SAWNRTLHRV	SKKLREHFPN	TTIKFQ.		
00BW2063_6	EKWNKTLYRV	SEKLKEYFPN	KTIKFD.		
00BW2087_2	DKWNKTLQQV	GEKLAEHFPN	KTIKFA.	.PSSGGDLGI	
00BW2127_2	DAWNETLQQV	GKKLEEYFPN	KTIKFA.	.NSSGGDLEI	
00BW2128_3	EEWNKTLREV	KGKLGKHFN.	KTIMFA.	.PSSGGDLEI	
00BW2276_7	NOWNETLORV	GKKLKEHFN.	KTIKFE.	.QSSGGDLEI	
00BW3819_3 00BW3842 8	KAWNKTLQLV	VKKLKEHFPN	RTIKFT.	. PPPGGNLEI	
00BW3842_8 00BW3871 3	GNWTKTLQRV	SRKLRQIFNK	SNIEFK.	.PHSGGDPEI	TTHSFNCRGE
00BW3871_3	HEWNKTLEGV	KKKLGEHFPN	KTIKFQ.	.PSSGGDLEI	ATHTFNCRGE
00BW3876_8	SDWNRTLQWV	KNKLGEHFPN	TVIKFE.	.PSSGGDLEI	TTHSFNCRGE
00BW3891 6	GNWTETLRRV	KNKLGEHFPN	KTITFG.	.PSSGGDLEI	TTHSFNCRGE
00BW3970 2	STWNRTLQEV ADWNRTLQGV	SKKLVERFPN	KTIRFQ.	.PPSGGDLEI	TTHSFNCRGE
00BW5031 1	TKWTETLQKI		KTISFQ.	.PSSGGDLEI	
96BW01B21	EVWKKTLQRV		KTIIFA.	.PSSGGDPEI	
96BW0407	KDWNKTLHRV	OKUTVENEDIA	KTIQFQ.	.PPSGGDLEV	
96BW0502			KNITFK.	.PSSGGDLEI	
96BW06 J4	TNWNKTLKGV		KAIKCE.	.PSSGGDLEI	
96BW11 06		IEKLKEHFPN	KNITFQ.	.PASGGDLEI	TTHTFNCRGE
96BW1210	GAWNETLQWV		KTIRFK.	.QAAGGDLEI	
96BW15B03	GEWNKAVQRV	SAKLREHFPN	KTIRFK.	PESSEGDLEI	TTHSFNCGGE
96BW16_26	SEWKRTLQRV	SEKLGKHFPN	KTIKFA.	.PSSGGDLEI	TTHSFNCRGE
96BW17A09	WNNTLQQV	VKKLRKHFPN	KTITFA.	.PPSGGDLEI	TTHVLNCRGE
96BWM01_5	SKWNKILYRV		KTIQFG.	.QPIGGDLEI	TTHSFNCGGE
96BWMO3_2	GEWAKVMQKV	TGKLKEHFP.	KNITFQ.		TTHSFNCRGE TTHSFNCRGE
98BWMC12_2	QKWNKTLQQV	GKKLAEYFPN	PTTAFN	SSAPCDIET	ATHSFNCRGE
98BWMC13_4	SLWNETLYKV	SEKLKEYFN.	OTHTT	OPAGGDIET	TTHSFNCRGE
98BWMC14_a	EEMUNSTOKA	AKKLREHFPN	ΚΥΤΔΕΝΙ	.SSSGGDLET	TTHTFNCRGE
98BWM014_1	GNWTKTLHRV	GEKLKEHFPN	KTTKFA	.PPSGGDLEI	IMHSFNCGGE
98BWM018_d	DDWKSTLQNV	SEKLRRHFPN	KTTVFN	.SPSGGDLEI	ITHSFNCEGE
98BWMO36_a 98BWMO37_d	ERWNKTLQEV	GEKLERHFPN	KTIEFK.	.PSSGGDLEI	TTHSFNCRGE
99BW3932_1	KKWYKALHGV	REKLKVLFPN	KNISFQ.	.PAAGGDLEV	TTHSFNCKGE
99BW4642_4	DAWNKTLQQV		STIRFA.	.PHSGGDLEI	TTHSFNCRGE
99BW4745_8	SEWNRTLORY		KTIKFN.	.SSSGGDLEI	TTHSFNCRGE
99BW4754_7	KAWNTTLQEV		KTIKFQ.	.PHSGGDPEI	TMHSFTCGGE
99BWMC16_8	SQWNKTLYEV : EAWNKTLLRV :		KTIQFN.	.SSTGGDLEI	TTHSFNCGGE
A2_CD 97CD	TEWNATLKKV		KTIIFD.	.KSSGGDLEI	TTHSFNCGGE
A2_CY_94CY	TLWNDTLQKV		KTIIFN.	SSSGGDLEI	TTHSFNCGGE
A2D97KR	RQWNDTLQKV I		KTIIFT.	.NSSGGDPEI	TTLSFNCAGE
A2G_CD_97C	AGWNDILQKV 1		KTIIFT.	.NSSGGDIEI	TTHSVNCGGE
A_BY_97BL0	AAXNSTLQKI S		KNITFA.	.NSSGGDLEI	TTHSFNCGGE
A_KE_Q23_A	SRWNKTLQEV A		KTIIFK. KTIIFA.	.SSTGXDLEV	TTHSFNCGGE
A_SE_SE659	SEWNNTLQQV A		KTIIFA.	.NSSGGDLEI	TTHSFNCGGE
A_SE_SE725	SSWNKTLQDI V		RTIIFT.	NSSGGDLEI	TTHSFNCKGE
A_SE_SE753	SKWNATLQKV A	AIKLREYFDD		SSSGGDLEI	TTHSFNCGGE
	<del>-</del> -			.KPSGGDLEI	TIHSPNCGGE

A SE SE853	A MARTINE TO				
A_SE_SE889	AKWNKTLHE	V AKQLRTYFNN	KTIIFT	.NSSGGDLE	I TTHTVNCGGE
A SE UGSE8	TEMMENT MAN	V VNQLKTHFKN		.SSSGGDLE	I TTHSFNCGGE
A_UG_92UG0	SUMMETPKK	V AIQLRKYWN.		.NSSGGDLE	I TTHSFNCGGE
A_UG_U455		V VEQLRKYWNN		SSSGGDLE	I TTHSFNCAGE
AC_IN_2130	V EMMINITY I MILE	J AEQLKKKFNN		.SSSGGDIE	I TTHSFNCGGE
AC RW 92RW		I GKQLRKYFVN			I TTHSFNCEGE
AC_SE_SE94		J AEKLSHYFEN			I TTHSFNCGGE
ACD_SE_SE8	T VMIVITHK/	VTQLRKYFVN			V TTHSFNCRGE
ACG BE VI1	PEMMULTOO!	/ AKKLGDPLNK		.PPSGGDLE	I TTHSFNCGGE
AD SE SE69	TOWN THUM	GKKLAEYYPN	•	.QASGGDLE	VTHSFNCGGE
AD SE SE71	TWINTING OF	AIQLKHYYG.	NKTVIFAN	.SS.GGDIE	TTHSFNCRGE
ADHK_NO_97	CCMMNAL LINA	VIQLRRYFNN		.NSSGGDLE	TTHSFNCGGE
ADK CD MAL	GOMINITIES/	ATQLXQHFS.	NKTIIFNA	.SA.GGDIE	TTHSFNCAGE
AG_BE_VI11	KDMCKWI Ozza	AVKLGSLLN.	KTKIIFNS	.SS.GGDPE	TTHSFNCRGE
AG NG 92NG	VENOEMT OXA	SRQLKKFFNN	KTIFFNS	.SA.GGDLE	TTHSFNCRGE
AGHU GA VI		QAQLEQVFN.	KSITFNS	.SA.GGDLE	TTHSFNCRGE
AGU_CD_Z32	POMMET PEKA	KEKLGRHFK.	NKTITFKP	. AS . GGDPEV	TMHIFNCRGE
AJ_BW_BW21	KMMADAL LINA:	AAQLRKHFVN		.NSSGGDVEI	TTHSFNCGGE
B_AU_VH_AF	TOWINGTON	TAKLKEYFN.	TTIEFQP	.AS.AGDLEI	MTHTFNCGGE
B_CN_RL42	TWATSAPKÖT	AVKLRERFK.	NKTIVFNH	.SS.GGDPEI	VRHSFNCGGE
B_DE_D31_U	T CMMM T T VÕT	TKKLREQFG.	NKTIVFNQ	.SS.GGDPEI	VMHSFNCGGE
B DE HAN U	MANAGE MOT	VKKLRERFG.	NKTIVFNQ	.SS.GGDPEI	VTHSFNCGGE
B FR HXB2	VKMMVITIMÕT	FRKLREIRQF	.ENKTIVFNR	.SS.GGDPEI	VMHSFNCGGE
B_GA_OYI	VARIATION TO A	ASKLREQFG.	.NNKTIIFKQ	.SS.GGDPEI	VTHSFNCGGE
B GB CAM1	TANDATE NOT	ATKLRKQFR.	.N.KTIAFDR	.SS.GGDPEI	VMHSFNCGGE
B_GB_GB8_C	TYMMMITTYÖT	VTKLKEOFG.	NKTIIFNQ	.SS.GGDPEI	VMHSFNCGGE
B_GB_MANC	DKMEKALKOT	VIELRKOFR.	NKTIVFNQ	.SS.GGDPEI	VMHSFNCGGE
B_KR_WK AF	EKMMDALIKOI	VEKLREKFG. VIKLGEQFG.	NKTIIFNQ	.SS.GGDPEI	VTHSFNCGGE
B_NL 3202A	DIMINITY NOT	VIKLGEOFG.	.NSNIIVFKQ	.SS.GGDPEI	VMHSFICGGE
B_TW_TWCYS	TOUT THINK TA	VSKLRKQFG. VKKFREQFG.	NKTIVFSQ	.PL.GGDPEI	VMHSFNCGGE
B_US_BC_LO	AKWMDTI.POT	VIKLREQF	NKTIVFNQ	.SS.GGDLEI	VMHSFNCGGE
B US DH123	VKMHMILI KOM	VEKLREKFE.	.ENKTIVFNQ	.SS.GGDPEI	VMHSFNCGGE
B US JRCSF	AOWNMTLKOT	VEKLREQF	NKTIVFNK	.SS.GGDPEI	VMHSFNCGGE
B_US_MNCG	AKWMDTT.POT	VSKLKEQFK.	.NNKTIVFTH	.SS.GGDPEI	VMHSFNCGGE
B US P896	AKWNNTT.OOT	VIKLREKF	NKTIVFNQ	.SS.GGDPEI	VMHSFNCGGE
B_US_RF_M1	AOMMNATI KOA	VTKLREQF	.RNKTIAFNQ	.SS.GGDPEI	VMHSFNCGGE
B_US_SF2_K	AQWNNTLEQI	ALVIN. FOR	.DNKTIVFTS	.SS.GGDPEI	VLHSFNCGGE
B US WEAU1	TSWNNTLKOT	VEKLREIKQF	.NNKTIVFNQ	.SS.GGDPEI	VMHSFNCRGE
B_US_WR27	TKWKNTLEKT	VAKIREIKOF	. KNKTIVFKQ	.SS.GGDPEI	VMHSFNCGGE
B US YU2 M	TQWENTLEQI	ATKI KEUEG	.KNKTIVFNH	.SS.GGDPEI	VMHSFNCGGE
BF1_BR_93B	TKWNETLEKV		NNKTLLFNP	.SS.GGDPEI	VTHSFNCGGE
C_BR 92BR0	TAWNKTLOEV		ATIKFNS	.SS.GGDLEI	TMHSFNCRGE
C_BW_96BW0	RDWNDTLNRV	SKKLAEHFPN	KAIKFA.	.KHSGGDLEI	TTHSFNCRGE
C_BW_96BW1	SQWNNTLORV	SEKLKEHFPN	WITEEK.	.PSSGGDLEI	TTHSFNCRGE
C_BW_96BW1	GAWNETLOWV	GKKLKEHFPN	VULTURE	· QPAGGDLEI	TTHSFNCGGE
C_BW 96BW1	GEWNKAVORV	SAKLREHFPN	VULUEV.	ESSGGDLEI	TTHSFNCGGE
C_ET_ETH22	EKWNKTLOKV	KEKLQKHFPN	VTTERV.	PSSGGDLEI	TTHSFNCRGE
C_IN_93IN1	DKWNETLORV	GKKLAEHFHN	VTTEEK.	PSSGGDLEI	TTHSFNCGGE
C_IN_93IN9	ENWTDTLORV	SKKLAEHFPN GEKLAEHEDN	VTTVPD	SSSGGDLEI	TTHSFNCRGE
C_IN_93IN9	DRWNETLOWV	GEKLAEHFPN	WTTVED.	PESSGEDLEI	TTHSFNCRGE
C_IN_94IN1	RDWNETLORV	SEKLAKHFPN		.PSSGGDLEI	TTHSFNCRGE
C_IN_95IN2	DKWNETLONV	SKKLAEHFPN		.PSSGGDLEI	TTHSFNCRGE
CRF01_AE_C	TKWNETLKOV	TKKLREHFKN		.SSSGGDLEI	TTHSFNCRGE
CRF01_AE_C	TKWKETLKOV	TRKLREHLING	тмттерр Т	.PSSGGDPEI	TMHHFNCRGE
CRF01_AE_C	TKWNETLOOT	IRKLEEHFNN	KALL VEINE THITTORK	PYSSGGDPEI	TMHHFNCRGE
CRF01_AE_T	TKWNKVLKOV	TEKLKEHFNN		PYSGGDLEI	TMHHFNCRGE
CRF01_AE_T	TKWNEVLKOV	AGKLKEHFNN		. PPSGGDLEI	TMHHFNCRGE
CRF01_AE_T	TKWNKVLNOV	TEKLKEHFNN .	DMICEV.	.PPSGGDLEI	TMHHFNCRGE
CRF01_AE_T	TKWNETLKOV	AGKLREHFNN .	KTITEO	PROGEDLEI	TMHHFICRGE
CRF01_AE_T	TKWNKVLKOV	TEKLKEHFN	KULTEO.	PROCES	TMHHFNCRGE
			···KITIEQ.	· FraggdleI	TMHHFNCRGE

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CRF01_AE_T TKWNKVLKQV TEKLKEHFN. ...KTIIFQ. .PPSGGDLEI TMHHFNCRGG
   CRF02_AG_F SEWNRTLQQV ATQLRKHFN. ...KTIIFA. .NSSGGDIEI TTHSFNCGGE
   CRF02_AG_F SKWNNTLQQV AIQLRKHFN. ...TTIIFA. .NPSGGDIEI TTHSFNCGGE
   CRF02_AG_G TDWNTTLQQV ATQLGKYFRD T..TRIKFD. .NPSGGDLEI MTHSFNCGGE
  CRF02_AG_N TEWNKTLHQV VTQLKTYFKN ...TTIIFA. .NPLGGDVEI TTHSFNCGGE
  CRF02_AG_S QQWNKTLHDV ATKLREYFNN ...TTIIFD. .EPSGGDLEI TTHSFNCGGE
  CRF02_AG_S EKWNSTLQKV VTKLGKHFNS ...SKIIFT. .NSSGGDLEI TTHSFNCGGE
  CRF03 AB R TKWNNTLKQI VIKLRKQFG. ..NKTIVFNQ .SS.GGDPEI VMHSFNCGGE
  CRF03_AB_R TKWNNTLEQI VSKLRKQFR. ..NKTIVFNQ .SS.GGDPEI VMHSFNCGGE
  CRF04_cpx_ NDWNDTLKVI SEELKRLFP. ..NKTIKFAP .PV.GGDLEI TTHSFNCKGE
  CRF04_cpx_ SDWNEALQKV VVKLREHFP. ..NKTIIFNQ .SS.GGDLEI TTHSFNCGGE
  CRF04_cpx_ KDWNTTLQKI VDELRKHFP. ..NKNITFAP .SA.GGDVEI TTHSFRLGGE
  CRF05_DF_B EQWNKTLIQV AKELQSHFP. ..NKTIKFNS .SS.GGDLEI TMHSFNCRGE
  CRF05_DF_B AQWNKTLEQV KEELRAHIKD IGNKTIVFNS .SA.GGDLEI TSHIFNCRGE
  CRF06_cpx_ ANWTDILGEV KVKLEEVFNN ...THITFKS .SA.GGDLEI TTHSFNCGGE
  CRF06_cpx_ KAWNSMLQNV TAKLKELFNN ...KNITFNS .SA.GGDLEV TTHSFNCGGE
  CRF06_CPX_ TAWKETLQNV TEKLKQLLN. ... TNITFNP .SA.GGDLEI TTHSFNCRGE
  CRF06_cpx_ TDWNNMLKNV TTKLIEVFK. ...KNITFNS .SA.GGDLEI TTHSFNCGGE
  CRF11_cpx_ AEWLNTLQQV ATQLRGKFN. ...KTIIFDN .PSPGGDIEI TSHSFNCRGE
 D_CD_ELI_K AQWSKTLQQV ARKLGTLLN. ..KTIIKFKP .SS.GGDPEI TTHSFNCGGE
 D_CD_NDK_M AEWNKALQQV ATKLGNLLN. ..KTTITFKP .SS.GGDPEI TSHMLNCGGD
 D_UG_94UG1 AGWNKTLQQV AEKLGNLLN. ..QTTIIFKP .SS.GGDPEI TTHSFNCGGE
 F1_BE_VI85 TQWNNTLEYV KAELKSHFPN N..TAIKFNQ .SS.GGDLEI TMHSFNCRGE
 F1_BR_93BR TQWRNTLAKV KAKLGSYFPN ...ATIKFNS .SS.GGDLEI TRHNFNCMGE
 F1_F1_F1N9 EQWNKTLDRV KAELKLHFNK ....TIQFNS .SS.GGDLEI TMHSFNCRGE
 F1_FR_MP41 TQWSKTKTQV QEKLRALFNK ...TIKFNQ .SS.GGDLEI TMHSFNCRGE
F2_CM_MP25 KQWYDTLIKI ATEFKDQYN ...KTVGFQP .SA.GGDLEI TTHSFNCRGE
F2_CM_MP25 KQWYDTLIKI ATEFKDQYN. ..KTVGFQP .SA.GGDLEI TTHSFNCRGE F2KU_BE_VI ENWNKTLEGV KAKLHGFFTN ..KTIIFKP .HS.GGDPEV VMHTFNCGGE G_NG_92NGO IKWREMLKNV TAQLRKIYN. .NKNITFNS .SA.GGDLEI TTHSFNCRGE G_SE_SE616 RKWKEALQNV AAELGKIFNK S.SENITFNS .SA.GGDLEI TTHSFNCRGE H_BE_VI991 KQWNETLHKV ITKLGSYFD. .NKTIILQP .PA.GGDIEI ITHSFNCRGE H_CF_90CFO TDWNKTLHQV VTQLGIHLN. .NRTLIFKP .HS.GGDLEV TTHSFNCRGE J_SE_SE702 KDWNNTLRRV AKKLREHFN. .KTIDFTS .PS.GGDIEI TTHSFNCRGE K_CD_EQTB1 GQWNKTVNQV KKELGKHFN. .KTINFTS .PS.GGDIEI VTHSFNCGGE K_CM_MP535 EKWNMTLSRV KEKLKEHFKN ..KTINFTS .PS.GGDPQV TRHIFNCRGE K_CM_MP535 EKWNMTLSRV KEKLKEHFKN ..KTINFTS .PS.GGDPQV TRHIFNCRGE ..NNITFRA RERNEGDLEV THLMFNCRGE ..NSIGGDSEV THLMFNCRGE ...RSIGGDSEV THLMFNCRGE ..NSIGGDSEV ...THLMFNCRGE ...THLMFNCRGE ...THLMFNCRGE ...THLMFNCRGE ...THLMFNCRGE ...THLMFNCRGE ...THLMFNCRGE ...THLMFNCRGE ...THLMFNCRGE ...THLMFNCRGE ...T
O_SN_99SE_ SDWEKALKQT AERYLDLRNN TNTVNITFE. .RSIGGDSEV THLHFNCHGE
O SN 99SE
                       SVWEEALKQT AERYLELMNN TNTVNITFN. .HSTGGDPEV THLHFNCHGE
O_SN_99SE_ SVWEEALKQT AEKILELMINN THTVNITFN. .HSTGGDPEV THLHFNCHGE
U_CD__83C GEWRNTLQQV AIALRRQFNN ...KSIIFN. .SSSGGDIEI TTHTFNCGGE
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	451				
00BW0762 1		NGTYN	CIICD	mar mar	500
00BW0768 2	FFYCDTSNI.F	NKTRR	SIGD	TNSTN	STITLQCRIK
00BW0874 2	FFYCNTSDI.F	NSTYN	DYCE	·····AN	ETITLPCRIK
00BW1471 2	FFYCYTTKT.F	NSTYN	COMM	TIEGRSN	ATTTLQCRIK
00BW1616 2	FFYCNTSKI.F	NGTYN	CANAL	GSESN	ITIPCRIK
00BW1686 8	FFYCNTSMI.S	NETYL	NING	TA	.DITLQCRIK
00BW1759 3	FFYCNTSNLF	NNTYR	TUMA	SNVTKN	ATITLPCRIK
00BW1773 2	FFYCNTSALF	NSTYN	CONTRI	TINDNSN	ITLQCRIK
00BW1783 5	FFYCNTSKLF	NGTYN	SINI	SGHNDT	RITTLPCRIK
00BW1795 6	FFYCNTSELF	NGTYN	ema	1551	SSITLQCRIK
00BW1811 3	FFYCNTSOLF	NGTYM	יייינים.	MC GCDY	NLITLOCKIK
00BW1859 5	FFYCNTTHLE	NGNG	·····PNII	מעמממיז	RNITIPCRIK
00BW1880 2	FFYCDTTKLF	NGTYN	רשיים		INTILIPCRIK
00BW1921 1	FFYCNTSOLF	NGTYN	A du	ECNCC N	STITLQCRIK
00BW2036 1	FFYCDTSKLF	NSSYN	יים ייים	YCYNC M	STITLPCRIK
00BW2063 6	FFYCNTSOLF	NSSYS	מעס	TOING	ANTITUPCRUK
00BW2087 2	FFYCNTSGLF	N	GTP	NOT HOTEL	STITLPUNIK
00BW2127 2	FFYCNTTILF	NSTYY	D	MGIDIM	INITIDECKIK
00BW2128 3	FFYCNTSLLF	DETQL	SKE	MIKSDII	FITTLECKIK
00BW2276 7	FFYCNTSKLF	NGTYM	סאיטאיז	TON COMM	MITNIQUEKIK
00BW3819 3	FFYCNTSGLF	NGTYN	G	עשטוא טואב	SULTIPCKIK
00BW3842 8	FFYCNTSLLF	NSSYN	GNSS	אסייינע אי	SDITTIPCKIK
00BW3871 3	FFYCNTSILF	NDTYW	FNGT	ANDIGSN	DITITIOCKTK
00BW3876 9	FFYCNTSGLF	NNNLI	NNG	מא	DAIDI DODIN
00BW3886 8	FFYCNTSKLF	NSTNN	NTE	SES N	DITKUPCKIK
00BW3891 6	FFYCNISRLF	NRPNM	TKNM	TSDIKNN	SALAL DODING
00BW3970 2	FFYCNTSSLF	NNTYR	PTYW	PGTE SM	STITUPCKIK
00BW5031 1	FFYCNTSQLF	NSTYR	ANTS	NS	MITTLOCKIK
96BW01B21	FFYCDTSELF	NSTYM	SNGG	NTSS S	TIMIDOCKIK
96BW0407	FFYCNTSRLF	NESYN	FDES	YWN N TN	KTTMLPCKIE
96BW0502	FFYCDTSQLF	NSTYS	PSNG	TENK. IN	GTTTTTCDTK
96BW06_J4	FFYCNTSRLF	DETYL	S	GTDEDN	GTTTI.DCKIK
96BW11_06	FFYCNTSKLF	NSTYI	OLN.	STETPN	STITI PORTK
96BW1210	FFYCNTSQLF	NSTYN		MPSNNTG	TNITIOCRIK
96BW15B03	FFYCNSSKLL	NSSYN	GTSY	RGTESNS	SITTLECRIK
96BW16_26	FFYCNTSKLF	NSTYN	STDR	SNNT	DNITTOCRTK
96BW17A09	FFYCNTSILF	NSTYN	STYT	GSDSNS	TITTECRIK
96BWM01_5	FIYCNTSKLF	NGTYN	STG.	TSN	STITLSCRIK
96BWMO3_2	FFYCNTSELF	NGTYN	GTD.	NNSN	KTITLLCRIK
98BWMC12_2	FFYCNTSGLF	NSTYN	PNST	YTESKAN	SNITLHCRIK
98BWMC13_4	FFYCNTTKLF	NGTYS	QPN.	.STGTPH	SNITLPCKIK
98BWMC14_a	FFYCNTSQLF	NSTYN		RNSTTN	ATITLPCRIK
98BWMO14_1	FFYCNTSKLF	NSTYN	ATY	NSTDTSN	STITIPCRIK
98BWM018_d	FFYCNTSGLF	NS		AFNDNSG	GTITLOCRIE
98BWMO36_a	FFYCNTSGLF	NSTYY	SNKT	SSNMTTN	EIITIPCKIK
98BWM037_d	FFYCNTSKLF	NTSWL	DSYI	SNTGNN	SIITLPCRIK
99BW3932_1	FFYCNTSRLF	NSTYN	P	NTKSNTG	SWIILPCRIK
99BW4642_4	FFYCNTSKLF	TYQSN	TY	VAN	STITLPCKIK
99BW4745_8	FFYCNTSELF	NSTYN	ANTY	NTATGNNS	TTIILPCRIK
99BW4754_7	FFYCNTSKLF	NSTFN	SNGH	$\mathtt{DST} \ldots . \mathtt{GN}$	DPLTIPCRIK
99BWMC16_8	FFYCNTSNLF	NNTYY	PNMT	NTDTKSN	LTITLPCRIK
A2_CD_97CD	FFYCNTTGLF	NSTWEN	GTNK	QNYTESN	DTITLQCRIK
A2_CY_94CY	FFYCNTTGLF	NGTWWNN	GTWN	GPYTPNN.TN	GSIILPCRIK
A2D97KR	FFYCDTSGLF	NSTWPAN	ASRE	NEEKDR.	.NVTLPCRIK
A2G_CD_97C	FFYCNTTNLF	NSTFNTT	SLFN	STGRNGTNDN	TTITIPCRIK
A_BY_97BL0	FFYCNTTDLF	NSTX	DGTVT	NSTKAN	GTITLPCRIK
A_KE_Q23_A	FFYCNTSGLF	NSTWY	VNSTW	NDTDSTQESN	DTITLPCRIK
A_SE_SE659	FFYCNTSSLF	NSTWS	NDNNT	QGSNSTET.K	GTITLPCRIK
A_SE_SE725	FFYCNTSGLF	NSTWS	Q.NDT	GVSNSTES.N	DTIILPCRIK
A_SE_SE753	rfyCNTSGLF	NSTIL	NSTKM	NDNASRESYD	DTITLQCRIK

A OF CEOES	PPVCNmcct p	Nomic			
A_SE_SE853 A SE SE889	FEVENTEGLE	NSTWS	SNASE	PMSNSTES.N	DTITLQCRIR
	PEVCMECT	NSTWN	GIDSM	QKLNST	GNITLPCRIK
A_SE_UGSE8 A UG 92UG0	FFICHTSGLE	NSSWN	END.T	KVNYNTES.N	DTITLQCRIK
	FFICNISGLE	NSTWV	NGTTS	STSN	GTITLPCRIK
A_UG_U455_	FFICHTSGLF	NSIWN	GSMSN	DMGPN	GTITLQCRIK
AC_IN_2130	FFYCNTSGLF	NGTWNASMQ.	ES	NSTESN	ETIILPCRIK
AC_RW_92RW	FFYCNTSGLF	NSTWS	KR	NGTWQSNGTE	LNITLPCRIK
AC_SE_SE94	FFYCDTSGLF	NSTWPFNS	T	NSTGPN	GTITLQCRIK
ACD_SE_SE8	FFYCNTSGLF	NSTWV	NGSRE	SNSTDN	DTITLPCRIK
ACG_BE_VI1	FFYCNTSGLF	NSTYN	PSYN	STESVNE	TTIILPCKIK
AD_SE_SE69	FFYCNTTGLF	NSTWNDTAT.	EQKP	N	DTIRLQCRIK
AD_SE_SE71	FFYCNTSGLF	NSTWN	NTDSM	QESHSTET.N	DTITLPCRIK
ADHK_NO_97	FFYCNTSQLF	NSTWNHTST.	YNST	EN	GTITLPCKIK
ADK_CD_MAL	FFYCNTSKLF	NSTWQNNGA.	RLSN	STE.ST	GSITLPCRIK
AG_BE_VI11	FFYCNTSALF	NFSSETNST.	• • • • • • • • •	FP.N	TTLTLPCRIK
AG_NG_92NG	FFYCNTSGLF	NESGGNDT	• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	.TITLPCKIK
AGHU_GA_VI	FFYCNTTKLF	NDTENKN		NDAEN	KTITLPCRIR
AGU_CD_Z32	FFYCNTSGLF	NSTWK	NSTSI	NDTVSN	GTITLPCRIK
AJ_BW_BW21	FFYCNTSGLF	NKSLLNETS.	NETT	DGAN	NTITLTCRIK
B_AU_VH_AF	FFYCNSTQLF	NSTWFNSTG.	NDTE	RATNNT	ENITLPCRIK
B_CN_RL42_	FFYCNTSQLF	NSTWNDTG	T	WNDTTGNS	.TITLPCRIK
B_DE_D31_U	FFYCNSAQLF	NSTWNDTK	ES	NNTNG	TTTT.PCRTK
B_DE_HAN_U	FFYCNSTKLF	NSTWNNTST.	WN	DNGND	.TITLPCRIK
B_FR_HXB2_	FFYCNSTQLF	NSTWFNSTW.	STEG	SNNTEGSD	TITLECRIK
B_GA_OYI	FFYCNTSQLF	NSTWNDTTR.	AN	.STEV	TITLECTIK
B GB CAM1	FFYCNTTQLF	NTTWLFNGT.	TOMW	EGLNNTER	NTTT.DCDTK
B_GB_GB8_C	FFYCKTAQLF	NSTWNSTGN.	GTIK	SNTTE	LITTIPCRIK
B GB MANC	FFYCNSTQLF	NSTWNTGND.	TRES	NDTNNT	GNITIPORTK
B KR WK AF	FFYCNTTQLS	NSTWORSDG.	TWNR	TGGLNETK	ENTTI-DODIK
B NL 3202A	FFYCNSTQLF	NSTWNDTGN.	VTER	SNNNE	MTTI.DCDTK
B TW TWCYS		NSTWNATST.	TANAT	NEENE	MITTLECKIK
B US BC LO			WNSS	AERSDDTG	CNITTLDCCKIK
B US DH123	FFYCNTKKLF	NSTWNGTEG.	SYNT	EGND	TTTLDCRIK
B US JRCSF	FFYCNSTOLF	NSTWNDTEK.	SSG	TEGND	TTTLDCCTY
B US MNCG	FFYCNTSPLF	NSTWNGNNT	ייי אואייי	TGSNN	VITTI CONTR
B US P896	FFYCNTAOLF	NSTWNVTGG.	TNG	TEGND	·NIIIQCKIK
B US RF M1	FFYCNTTOLF	NSTWNSTEG	SNINT	GGND	TTILL DODIE
B US SF2 K	FFYCNTTOLF	NNTWRINTT	FG	TKGND	*IIIDPCKIK
B US WEAU1	FFYCNSTOLE	NSTWHANGT	יייאראויי	EGADN	.TITLIPCKIK
B_US_WR27_	FFYCNSTOLE	NSTWNSTEG.	widat	TWSDK	.NITLPCRIK
B_US_YU2 M	FFYCNSTOLE	אסייתואטינע.	T.M	.NTGR	TIKPLCKIK
BF1 BR 93B	FFVCNTCGLF	MULIANDIKK.		.NIGR	.NITLPCRIK
C BR 92BR0	FFVCNTSSI.F	MOTVDM	DYCE	ENTEROR EN	GTITLPCRIK
C BW 96BW0	FFVCNTCDI.F	MEGVG	PMEC	ENITGTEN HWSNDTN	SITTIPCRIK
C BW 96BW1	FFVCNTCKT.P	MEGIG	ODMO	TEDTPN	ATITLPCRIK
C BW 96BW1	PEVCNTSOLE	NGIII	QPNS	MPSNNTG	STITLPCRIK
C BW 96BW1	FFVCNCQUI.	MOLIN	S.TY	MPSNNTG	TNITLQCRIK
	PPYCAMOAT B	MODIN	GTSY	RGTESNs	SIITLPCRIK
C_ET_ETH22 C IN 93IN1	ELICHISHIE	NOTAL	E	LFNSSTN	LNITLQCRIK
C_IN_93IN1	PRYCHMOOL B	NGTYM	PTYM	PNGTESN.SN	STITIPCRIK
	FFICHTSGLF	NGTYN	TSSD	GNSS	STITIPCRIK
C_IN_93IN9	FFICNTSSLF	DSLFN	PNGT	RNDTN	LTITIPCRIK
C_IN_94IN1	FFYCNTSGLF	NSTYM	SGTY	${\tt MNSSADM.NS}$	SYITIPCRIK
C_IN_95IN2	FFYCNTSGLF	NRTYM	PNDT	KSNSSSN.PN	ANITIPCRIK
CRF01_AE_C	FFYCNTTKLF	NSTWT	TNE	IMEEFKGTNS	STITLPCRIK
CRF01_AE_C	FFYCNTTALF	NSTWI	N.G	TMQEVNGTNS	GNITLPCRIK
CRF01_AE_C	FFYCNTTRLF	N	• • • • • • • • •	ISTNGTTN	GTITLPCRIK
CRF01_AE_T	FFYCNTTQLF	NNTCI	GNE	TMKGCNG	.TITLPCKIK
CRF01_AE_T	FFYCNTTQLF	NSTWT	GNE	TMEGSNG	.TITLPCKIK
CRF01_AE_T	FFYCNTTRLF	NNTCI	GNK	TMKECND	.TIILPCKIK
CRF01_AE_T	FFYCNTTKLF	NSTWI	GNE	TIGSSG	.NIILPCRIK
CRF01_AE_T	FFYCNTTKLF	NNTCL	GNE	TMAGCND	.TITLPCKIK

CRF01 AE T	FFYCNTTKLF	NSTWR		TIESREGYNK	.TIILPCKIK
CRF02 AG F				NHIESNHT.E	
CRF02_AG_F				NHTESNHT.E	
CRF02_AG_G				ASSNHTEL.N	
CRF02_AG_N				STANHTGS.N	
CRF02_AG_S				DKTINGTE.D	
CRF02 AG S				NASNNKDA.N	
CRF03_AB_R	FFYCNTTKLF	NSTWNGTEE.	LN	.NTEG	DIVTLPCRIK
CRF03_AB_R	FFYCNTTKLF			.NTKG	
CRF04 Cpx	FFYCNTTPLF	NSTHMQNGT.	NIT.	S.TDSTN	STITLOCRLK
CRF04_cpx_	FFYCNTSGLF	NSTYMFNST.		T.TNGTN	
CRF04 Cpx	FFYCNTSDLF	NRTYMVNKN.		T.NTTDE	
CRF05 DF B	FFYCDTSKLF	NATVFNDTV.		MFNNDSD	
CRF05_DF_B	FFYCNTSGLF			NNE	
CRF06_cpx_	FFYCNTSNLF			NDTN	
CRF06_cpx_		NNNITDSNE.		T	
CRF06 cpx	FFYCNTSQLF	NSSIPESNE.		T	DIITLPCKIK
CRF06_cpx_	FFYCNTSQLF	NSSNLNNNS.		SDNN	
CRF11 cpx	FFYCNTSGLF	NNTWLFNST.	wnss	QELNGTE	PNITLPCRIK
CRF11 cpx	FFYCNTSGLF	NSTWYANDN.		NDMQSND	
D CD 84ZRO	FFYCNTSGLF	NSAWNISGH.		ND	
D CD ELI K	FFYCNTSGLF	NSTWNISAW.		ESNNS.TN	
D CD NDK M	FFYCNTSRLF	NSTWNQTNS.			
D UG 94UG1	FFYCNTTRLF	NSTWKRNNS.	EWRS	DNT.PD	ETITLQCRIK
F1 BE VI85	FFYCDTSGLF	NDTGSN		N	GTITLPCRIK
F1 BR 93BR	FFYCNTDELF	NDTKFND		TGFN	GTITLPCRIK
F1 FI FIN9				N	
F1 FR MP41	FFYCDTSGLF	NESEKY		N	GTIILPCKIK
F2 CM MP25	FFYCNTTILF	NHTRVNDIL.	SNNH	TREN	DTITLPCRIK
F2KU BE VI	FFYCNTTRLF	NDTLNHT		ID	QNITLPCKIK
G BE DRCBL	FFYCNTSGLF	NNSILKSNI.		SENN	DTITLNCKIK
G NG 92NG0	FFYCNTSGLF	NNNISNIN		N	ETITLPCKIK
G SE SE616	FFYCNTSGLF	NSSLLRSNS.		SE.N	GTITLPCKIK
H_BE_VI991	FFYCNTTKLF	NSTWTNSSY.		YNSNSTEDIT	
H BE VI997	FFYCNTSGLF	NSSWTGDNI.	NMPN	DTG	KNITLPCRIK
H CF 90CF0	FFYCNTSGLF	NSSWEMHTN.	YTSN	DTKGN	ENITLPCRIK
J SE SE702	FFYCNTSTLF	NSSWDENNI.	KDTN	STNDN	TTITIPCKIK
J_SE_SE788	FLYCNTSKLF	NSSWDKNSI.	EATN	DTSX	ATITIPCKIK
K CD EQTB1	FSYCDTTDTV	DDTEEE		ED	TTITIPCRIK
K CM MP535	FFYCNTTKLF	NETGE		N	GTITLPCRIK
N CM YBF30	FFYCNTSKLF	NEELLN	ETG.		EPITLPCRIR
O_CM_ANT70	FFYCNTAKMF	NYTFS		SVSNVSQ.G.	
O_CM_MVP51	FFYCNTSGMF	NYTFIN		QEIKGSNETN	
OSN 99SE		NYTFS		TSNQNSSNS.	
O_SN_99SE_			CTRTNC	IRQSNSS	INGTISCRIK
U_CD83C	FFYCNTSELF	TGIWNG	TWDK	NCTSTESNCT	GNITLPCRIK

	501		·a		
00BW0762 1	QIINMWOGVG	KAMYAPPIAG	NTTCKSNTTG	LLLTRDGGEE	550
00BW0768 2	QIINMWOEVG	. RAMYAPPIEG	NTTCKSNTTG	LLLVRDGGEE	NTTE
00BW0874 2	OIINLWOEVG	RATYAPPTAG	MITCKENITE	LLLTRD.GG.	EDNKSE
00BW1471 2	OIINMWOGVG	OAMYAPPTAG	MITCHENITE	LLLTRDGGIN	NNSTTE
00BW1616 2	OIINLWOGVG	RAMYAPPTAG	MITCHONITE	LLLTRDGGIN	EDDNNTE
00BW1686 8	OIINMWOEVG	RATVAPPTAG	KITCKSNIIG	TLLTRDGGGE	NNSTE
00BW1759 3	OIINMWOEVG	RAMYADDIEC	NITTOMOSTEC	LLLTRDGGVS	NTTEGNE
00BW1773 2	OIINMWOKVG	PAMVADDIAG	MITCHOSIIG	LLLTRDGGKN	STNNGTE
00BW1783 5	OIINMWOGVG	OATVAPPTAG	MITTOKOMITTO	LLLTRDGG	SSTEE
00BW1795 6	OIINMWOKVG	PAMVADDIEG	MITCHSMIIG	LLLTRDGG	NNTENTE
00BW1811 3	OINTWORVE	PAMVADDING	MITCISMING	LLLTRDGGG	YEANHTE
00BW1859 5	OIINMWOEVG	RAMVADDIAG	MITCASMITG	LLLTRDGGGS	NTTNATE
00BW1880_2	OIINMWOGVG	PAMVADDIEC	MITCASALIG	LLLTRUGGKQ	NESK
00BW1921 1	OIINMWOGVG	PATVADDIEC	NITCHSNITG	LLLTRDGGKG	NGDNTTE
00BW2036 1	OITNMWOKVG	DGIVADDIEG	NIICKSNIIG	PPLIKDGGKG	NDTAE
00BW2063 6	OTTNMWOGVG	DAMVADDIAG	NIMCHONING	LLLVRDGG LILTRDGGG.	INTSTVE
00BW2087 2	OITNMWOEVG	PAMVADDIAG	MITTOISMITTO	ILLTRDGGG.	NETNETE
00BW2127_2	OIVNMWOGVG	DATVACETAG	MITCASMITG	TPPLKDGGED	TKNKTE
00BW2128 3	OT TNT WORVE	MAYDDIEG	NITCHSSITG	LLLLRDGGTE	TENNRTE
00BW2276 7	OTTNMWOGVG	DATVACRIEG	NITCKSNITG	LLLTRDGGTN	NNNTE
00BW3819 3	OTTNMWOEVG	MATIMOPIEG	SITCKSNITG	LLLVHDGG	NSNTSTE
00BW3842_8	OVINMWORVG	VATIAPPIAG	NITCISNITG	LLLTRDGEPS	TE
00BW3871 3	OTTNMWORVG	DYINADDIDG	TITCNSSITG	LLLVRDGD	NQTSDTE
00BW3876 9	OTTNIMWOEVE	KATIAPPIKG	TITCTSNITG	LLLTRDGGNT	GGNTTE
00BW3886 8	OFTEMMODUC	CAMIAPPIAG	NITCISNITG	LLLTRDGG.N	GGNNTE
00BW3891_6	OT TIMMOGNG	DAMVADDIAG	NITCRSNITG	LLLTRDG	····KNDTE
00BW3970 2	OTTNIMWOKK	RAMIAPPIAG	RIICKSNITG	LLLVRDGGQD	NVMNATE
00BW5031_1	OTTNIMWORVE	DAMVADDIAG	KITCKSNITG	LLLVRDGGGG	NNTATE
96BW01B21	OTTNIMWOGVG	RAMIAPPIAG	NIICKSNITG	VLLTYDGGEE	NE
96BW0407	OTTNIMMOGVG	DATVADDIAG	SITCRSNITG	LLLTRDGGLN	RSTEEPE
96BW0502	OTTNIMWOKVG	DAMAADDIAG	NITCVSNITG	LLLTWDGGHQ	SNE
96BW06 J4	OTTMWORVG	DATVADDIAG	NETCESDITG	LLLTRDGGKT	GPNDTE
96BW11 06	OFTNI.WOEVG	DAMAADDIAG	NITCKSNITG	LLLTRDGGLN	NDSE
96BW1210	OTTNEWORVG	DAMEADDIAG	NIICKSNIIG	LLLTRDG	.DKNDSE
96BW15B03	OTTNIMMORNG	DATVADDIEG	NITCKSNITG	ILLVRDGGNT	SENIE
96BW16_26	OTTNMWORVG	DAMAADDIEG	NITCSSSITG	LLLARDGG	LDNVTTE
96BW17A09	OTTNIMWOGVG	CAMMANDERG	NITCKSNITG	LLLVRDGGTE	ENNTGTE
96BWM01 5	OTTNMWOGNG	DAMVACDIAG	NITCRSNITG	LLLTRDGGK.	VTGNTTE
96BWM03 2	OTTNITHOUSE	DATVADDIAG	NITCKSNITG	LLLTRDGG	NETSGIE
98BWMC12_2	OTTNMWOEVG	MATIAPPIAG	NIICISNITG	LLLTRDGGKT	NDTNDTE
98BWMC13 4	OTTMWWOGVG	KAMIAPPIAG	NITCRSNITG	LLLTRD.GGN	TTETKE
98BWMC14_a	OTTMMMOEVO	DATVADDING	NITCISNITG	LILTRDGG	VNRSDTE
98BWM014_1	OTTNMWQEVG	CATIAPPING	NITCESNITG	LLLTRDGGSN	DTTE
98BWM018_d	OTTMWWORVG	DATVADDIAG	NITCKSNITG	ILLTRDGGIN	NTNGTE
98BWM036 a	OTTNMWORVG	DAMVADDIAG	NITCSSRITG	LLLTRDGGKN	····DTHE
98BWM037_d	OTTMWWOKVG	DYMANDED	NITCKSNITG	LLLVRDGGNN	NTTE
99BW3932 1	OTTMWWOKVC	DYMAYDDIAG	NITCRSNITG	LLLENDG	$N \dots M$
99BW4642_4	OTTNMWORVG	DVMAYDDIAG	NITCKSNITG	LLLVRDGGTA	TDE
99BW4745_8	OTTNMWORVG	DYMAYDDIEG	MITCOSNITG	LLLTRDGGTE	TDNKTE
99BW4754_7	OTTMWWOEVG	DYMANDLYG	DITCKSNITG	LLLVRDGGGK	NATNDTE
99BWMC16_8	OTTNRWOEVG	DAMVADDIAG	NITHOMOTETE	LILTRDGGNT	NNTE
A2 CD 97CD	OTTMMMODUC	DYMAYDDIAG	NITCISNITG	LLLVRDGGRT	SDSTKE
A2_CY_94CY	OTTUMMOTOG	DAMVADDIAG	VIKCISNITG	MILTRDGG	KNSINE
A2D 97KR	OTANIMINORAGE	DAMVADDING	TIKCTSNITG	IILTRDGG	NNGTNE
A2G_CD_97C	OLIMMINORAG	VWAITWELTING	TIKCTSNITG	MILTRDGNSG	GNATNE
A_BY_97BL0	OLIMMMODAG.	VENITHERTAG	TINCTSNITG	IILTRDGEKG	GDNTIE
A_KE_Q23_A	OLIMMINDYG ZTIMIMOKAG	CYMCX DD LD~	DIRCESNITG	LLLTRDGXGX	TNXSNE
A SE SE659	STIMMALLA	NAWAY DDIO	VIKCESNITG	LLLTRDGGKD	NNVNE
A SE SE725	OT THIMINODAC	VWITHELTÖG	VIKCESNITG	LILTRDG.GD	AGENE
A_SB_SE753	OTTIMMUDIA	NUT TURETHE	TIRCESNITG	LLLTRDG.GV	VNSTNE
	=	Kunturrik	AIRCKSNITG	LLLTRDGGNS	NSSTNE

A_SE_SE853	QIINMWQRAG	KAIYAPPIPG	IIKCVSNITG	LILTRDG.GS	NNS TNE
A_SE_SE889	<b>OTTMMMÖKV</b> G	QAIYAPPIQG	VIRCESNITG	LITTEDG GM	DAM ECE
A_SE_UGSE8	QIINMWQRTG	QATYAPPIPG	VIQCRSNITG	LILITEDGGVT	שניםמולו
A_UG_92UG0	QIINMWQRVG	QAMYAPPIOG	VIKCESNITG	LILTODG GV	MCC DCE
A UG U455	QIINMWQRVG	OAMYAPPIOG	VIRCESNITG	LLLINDG.GV	acucom
AC IN 2130	QIINMWORVG	OAMYAPPTOG	IIKCVSNITG	LILEDDON O	MNIKNE
AC RW 92RW	OIINMWORTG	OAMYAPPTOG	VISCVSNITG	TITEDOR.S	SNSTDE
AC SE SE94	OIIRMWORTG	OATYAPPTEG	EINCVSNITG	LLLIEDG.GN	NNTTTE
ACD SE SE8	OIINMWORVG	OAMVALDIDG	VIRCESNITG	LILLTRUGG	NN1TNE
ACG BE VI1	OTTNMWORVG	DAMVANDTAC	VIRCESMITE	PITTING GN	NTSTNE
AD SE SE69	OTTNMMODAG	DYLAYDDIOG	NITCHSNITG	LLLTRDGGVN	ETTETE
AD SE SE71	OTTIMIMODUC	CATTAPPIQG	VINCVSDITG	LILTRDGGVN	.NT.NE
ADHK NO 97	OTTIMINORYG	QAMIAPPIQG	VIKCTSNITG	LILTRDG.GG	NNSINA
	OT TANKAOKING	QAMYAPPIKG	NITCVSNITG	LILTIDXG	N.MSAENF
ADK_CD_MAL	OTTINIMORIG	KAMYAPPIAG	VINCLSNITG	LILTRDGGNS	.SD.NS.DNE
AG_BE_VI11	QIVRMWQRVG	QAMYAPPIAG	KITCRSNITG	LILTRDGGNP	NNTNNE
AG_NG_92NG	OT AKWMOKAG	QAMYAPPIAG	DITCRSNITG	LLLTRDGGVN	NTGNE
AGHU_GA_VI	<b>GTANWMOKAG</b>	RAMYAPPIAG	NITCRSNITG	ITITEDGG	SM MESTATE
AGU_CD_Z32	<b>OT AWMMOKAG</b>	QAMYAPPIKG	VIKCESNITG	ILLTROGVG	NNTANE
AJ_BW_BW21	<b>OTAKMMOKAG</b>	QAIYAPPIAG	NITCTSNITG	していてはないに	N.NTNGTE
B_AU_VH_AF	<b>QIINMWQKVG</b>	KAMYAPPING	QIRCSSNITG	LILTRDGGNQ	ENKTE
B_CN_RL42_	. GIANWMOEAG	KAMYAPPIEG	QIRCSSNITG	LLLTRDGGNN	.ES.KPTE
B_DE_D31_U	QIINMWQEVG	KAMYAPPISG	QIRCSSNITG	LLLTRDGGKN	.KD.NETE
B_DE_HAN_U	QIINMWQEVG	KAMYAPPIGG	LIRCSSNITG	LILTROGGND	.NS.STTE
B_FR_HXB2_	QIINMWQKVG	KAMYAPPISG	QIRCSSNITG	LLLTRDGGNS	.NNESE
B_GA_OYI	QIVNMWQEVG	KAMYAPPISG	QIRCSSKITG	LLLTRDGGKN	TTNGIE
B_GB_CAM1_	QIINRWQEVG	KAMYAPPITG	TISCSSNITG	LILTEDGGEG	.ENETE
B GB GB8 C	QIVNMWQEVG	KAMYAPPITG	QIRCASHITG	TTTTPDCCKG	
B GB MANC	QILNLWQEVG	KAMYAPPISG	QISCSSNITG	T.T.T.TDTCCNT	.NNTNETE
B KR WK AF	QIINRWQEVG	KAMYAPPISG	LIRCSSNITG	T.T.T.TDDGGMT	.NT.TGNTTE
B NL 3202A	QIINMWOGVG	KAMYAPPISG	QIRCSSNITG	TTTTTTTCCVD	.NN.GTNGTE
B TW TWCYS	OIINMWORVG	KAMYADDIEG	LIKCSSNITG	T WI MDD COM!	.ENKTGTE
B_US_BC_LO	OILNMWOEVG	KAMVADDISG	QIRCTSNITG	LILLEDGGIN	.DSEVE
B US DH123	OIINMWOEVG	KAMVADDICG	QIWCSSNITG	LLLTRDGGTS	.DT.NTTE
B_US_JRCSF	OTINMWORVG	KAMVADDIKO	QIRCSSNITG	TTTTRDGGKN	SSTE
B US MNCG	OTTMWOEVG	Kymayddiad	QIRCSSNITG	PPPLENGGK.	NESEIE
B_US_P896_	OTTMWWORTG	KYWAYDDIMO	QIRCSSNITG	LLLTRDGGKD	.TDTNDTE
B_US_RF_M1	OTVMWWOEVG	KYMAYDDICO	QIRCSSNITG	LLLTRDGGNS	····TETETE
B_US_SF2_K	OTTMMWORVG	KAMMADDIAG	QIKCISNITG	LLLTRDGGED	.TT.NTTE
B US WEAU1	OTTMDWOEVG	KAMIAPPIGG	QISCSSNITG	LLLTRDGGTN	.VT.NDTE
B_US_WR27_	OTTMMMODIA	KAMIAPPIEG	QIRCLSNITG	LLLTRDGGSS	.EE.NQTE
B US YU2 M	OT TIMMIOUS VG	KAMYAPPIDG	QIRCSSNITG	LLLTRDGGM.	· · · · SNETTE
BF1_BR_93B	OTTIMIMOEVG	RAMYAPPIRG	QIRCSSNITG	LLLTRDGGK.	DTNGTE
C BR 92BR0	QI VNIMQE VG	RAMYAAPIAG	NITCSSNITG	LLLTRDGG	QNNQTEE
C_BK_92BR0	OTTIMMOGVG	RAMYAPPIEG	ILTCRSNITG	LLLTRDGGTG	MHDTE
	OTTINIMAGGAG	RALYAPPIAG	NITCISNITG	LLLTRDGGTT	RNNESE
C_BW_96BW1 C BW 96BW1	OT INTMOEMS	RAMYAPPIAG	NIICKSNITG	LLLTRDG	.DKNDSE
	OTTINKWOEAG	RAMFAPPIAG	NITCKSNITG	ILLVRDGGNT	SENIE
C_BW_96BW1	OTTIMMOKAG	RALYAPPIEG	NITCSSSITG	LLLARDGG	LDNVTTE
C_ET_ETH22	<b>GTTWWMGGAG</b>	RAMYAPPIEG	IIMCRSNITG	LLLTRDGAKE	סאינים פענים
C_IN_93IN1	<b>ÖTTNMMÖEAG</b>	RAMYAPPIAG	NITCTSNITG	LLLVHDGGTK	EM DTENKTE
C_IN_93IN9	<b>GITUMMÓFAG</b>	RAMYAPPIEG	NITCKSNITG	LLLVRDGGAE	אַר ייזעזעזייבי
C_IN_93IN9	<b>GITWMMÖRAG</b>	RAMYAPPIAG	NITCKSNITG	LLLVRDGGRG	שייות איי אוו
C_IN_94IN1	<b>ÖTTNWMÖRA</b> Ğ	RAMYAPPIAG	NITCKSNITG	ILLERDG. G	SG SNOTE
C_IN_95IN2 .	<b>ÖTTUMMÖEAG</b>	RAMYAPPIEG	KITCRSNITG	LLLVRDGGED	KNMTRTMKTE
CRF01_AE_C	OAMMORAG	KAMYAPPISE	AVNCVSNITG	IILTRDGGNA	ייאדיי
CRF01_AE_C	<b>GIANNAMÓRA</b> G	RAMYAPPISE	VINCVSNITG	ILLTROGGIN	OMOTHIK NIC
CRF01_AE_C	OATKWMÖEAG	QAMYAPPIDE	AINCVSNITG	ILLVRDGGKT	ENET TE
CRF01_AE_T	<b>GTTWMMÖGTG</b>	QAMYAPPIDG	KINCVSNITG	ILLTRDGG	ANNTS NO
CRF01_AE_T	QIIRMWQGAG	QAMYAPPISG	IINCVSNITG	ILLTRDGG	בייוא זאיויואוא
CRF01_AE_T	QIINMWQGVG	QAMYNPPISG	NINCVSNITG	Thirppecee	MCTINIA TOTAL
CRF01_AE_T	QIINMWQEVG	QAMYAPPITG	KINCVSNITG	Thurphaa	VANIAC CE
CRF01 AE T	QIINMWQGAG	OAMYAPPISC	RINCUSNITE	TIITEDOG	TANKINGSE
				שלו אונוניג	ANULDNE

CRF01_AE_T QIINMWQGAG QAMYAPPING TINCISNITG ILLTRDGGD. NNNT CRF02_AG_F QIVNMWQKVG LAMYAPPISG EIRCKSNITG LLLTRDG.GS NNS. CRF02_AG_F QIVNMWQKVG RAMYAPPIPG EIRCESNITG LLLTRDG.GS NNS. CRF02_AG_G QIINMWQKVG QAMYAPPIQG VIRCDSNITG LLLTRDG.GS NNN. CRF02_AG_S QIVNMWQKVG QAMYAPPIPG EIRCESNITG LLLTRDG.G. NNS. CRF02_AG_S QIVRMWQKVG QAMYAPPIPG EIRCESNITG LLLTRDG.GN DNN. CRF02_AG_S QIINMWQKVG QAIYAPPIEG VIRCDSNITG ILLTRDG.GD NTN. CRF03_AB_R QIINMWQEVG KARYAPPIAG QIRCSSNITG LLLTRDGGNQ .S CRF03_AB_R QIINMWQEVG KAMYAPPIAG QIRCSSNITG LLLTRDGGNQ .N	TNETPETNENTEGDENVTENVTE
CRF02_AG_F CRF02_AG_G CRF02_AG_G CRF02_AG_N CRF02_AG_N CRF02_AG_S CRF02_AG_S CRF02_AG_S CRF02_AG_S CRF02_AG_S CRF02_AG_S CRF02_AG_S CRF02_AG_S CRF02_AG_S CRF02_AG_S CRF02_AG_S CRF02_AG_S CRF02_AG_S CRF02_AG_S CRF02_AG_S CRF03_AB_R QIINMWQKVG QAIYAPPIAG QIRCSSNITG LLLTRDG.GD NTN.	TNETPENTEGDENVTE
CRF02_AG_G QIINMWQKVG QAMYAPPIQG VIRCDSNITG LLLTRDG.GS NNN. CRF02_AG_N QIVNMWQKVG QAMYAPPIQG IIRCDSNITG LLLTRDG.G. NNS. CRF02_AG_S QIVRMWQKVG QAMYAPPIPG EIRCESNITG LLLTRDG.GN DNN. CRF02_AG_S QIINMWQKVG QAIYAPPIEG VIRCDSNITG ILLTRDG.GD NTN. CRF03_AB_R QIINMWQEVG KARYAPPIAG QIRCSSNITG LLLTRDGGNO .S.	TPETNENTEGDENVTENVTE
CRF02_AG_N QIVNMWQKVG QAMYAPPIQG IIRCDSNITG LLLTRDG.G. NNS. CRF02_AG_S QIVRMWQKVG QAMYAPPIPG EIRCESNITG LLLTRDG.GN DNN. CRF02_AG_S QIINMWQKVG QAIYAPPIEG VIRCDSNITG ILLTRDG.GD NTN. CRF03_AB_R QIINMWQEVG KARYAPPIAG QIRCSSNITG LLLTRDGGNO .S	TNENTEGDENVTENVTE
CRF02_AG_S QIVRMWQKVG QAMYAPPIPG EIRCESNITG LLLTRDG.GN DNN. CRF02_AG_S QIINMWQKVG QAIYAPPIEG VIRCDSNITG ILLTRDG.GD NTN. CRF03_AB_R QIINMWQEVG KARYAPPIAG QIRCSSNITG LLLTRDGGNO .S	NTE GDE NVTE NVTE
CRF02_AG_S QIINMWQKVG QAIYAPPIEG VIRCDSNITG ILLTRDG.GD NTN. CRF03_AB_R QIINMWQEVG KARYAPPIAG QIRCSSNITG LLLTRDGGNO .S	GDE NVTE NVTE GTNNTE
CRF03_AB_R QIINMWQEVG KARYAPPIAG QIRCSSNITG LLLTRDGGNO .S	NVTE NVTE GTNNTE
CRF03 AB R QIINMWQEVG KAMYAPPIAG OIRCSSNITG LLLTRDGGNO N	NVTE
	STNNTE
CRF04_cpx_ QFVRMWQEVG QAMYASPIAG SINCSSDITG IILTRDG	
CRF04_cpx_ QIVRMWQGVG QAMYAPPIAG SINCSSDITG IILTRDGGIS NNN.	ETNONE
CRF04_cpx_ QIVNRWQEVG QAIYAPPLQG SLTATQVITG IILTRDGGNR.	SDTGNE
CRF05_DF_B QIVRMWQGVG QAMYAAPIAG NIACNSTITG ILLARDGGNG .ND.	SSNOTE
CRF05_DF_B QIINMWQGVG QAMYAAPIAG NITCNSNITG ILLTRDGG .VN.	אייסאייי
CRF06_cpx_ QIVRMWQRVG QAMYAPPIAG NITCVSNITG IILTRDGN.N EN	VSE
CRF06_cpx_ QIVRMWQRVA QAMYAPPIAG NIICTSNITG LLLTRDGGRN DS	NSE
CRF06_cpx QIVRMWQRVG QAIYAPPIAG NITCISNITG LLLTRDGN.T NT	TSE
CRF06_cpx_ QIIRMWQRVG QAMYAPPIAG NITCTSNITG LLLTRDGH.N D	TE
CRF11_cpx QIVRMWQRVG QAMYAPPIQG EIRCDSNITG LLLTRDGG	NSTNE
CRF11_cpx_ QIINMWQRVG QAVYAPPIQG ELRCDSNITG LLLTRDGGEGN.1	OTTGKE
D_CD_84ZR0 QIINMWQEVG KAMYAPPIEG QINCSSNITG LLLTRDGGAN .NT.	O ND
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D CD MDV M ATINT MARKET TO THE TOTAL CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE	SHE
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F1_BR_93BR QIVNMWQEVG RAMYANPIAG NITCNSNITG LLLTRDGG	LNSTNE
MA	NNSDSE
HI WE MAKE ATTRACOUR ASSESSED A COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COME	DTNRTE
F2_CM_MP25 QIVNMWQRVG QAMYAPPIAG KIQCNSNITG LLLTIDGG	EGNESE
F2KU_BE_VI QIINRWQGVG QAMYAPPIAG NITCRSNITG MILTRDGGNS N	DTIDNE
G_BE_DRCBL QIVRMWQRVG QAMYAPPIAG NITCRSNITG LILTRDGGDN N	STSE
G_NG_92NG0 QIVRMWQKVG QAMYALPIAG NLVCKSNITG LILTRDGGNN N	.DSTEE
G_SE_SE616 QIVRMWQRVG QAMYAPPIAG NIECNSSITG LILTRDGGNN NNT.	NTSESE
H_BE_VI991 QIVNMWQRVG QAMYAPPIRG NITCISNITG LILTFDR.]	VNITNIV
H_BE_VI997 QIVNMWQRVG QAMYAPPIKG SITCVSNITG LILTYDEDK.(	VNONNE
H_CF_90CF0 QIVNMWQRVG RAMYAPPIQG NIMCVSNITG LILTIDEGN.	ASAENY
J_SE_SE702 QIVRMWQRTG QAIYAPPIAG NITCKSNITG LLLTRDGGNR .NG.;	SENGTE
J_SE_SE788 QIVRMWQRTG QAIYAPPIAG NITCTSNITG LLLTRDGGNR GNG.	SENGTE
K_CD_EQTB1 QIINMWQKVG QAIYAPPTAG NITCRSNITG MILTRDGGND N	TRTEE
K_CM_MP535 QIINMWQKVG KAIYAPPIAG SINCSSNITG MILTRDGGNN	THNE
N_CM_YBF30 QIVNLWTRVG KGIYAPPIRG VLNCTSNITG LVLEYSGGPD	TKET
O_CM_ANT70 QVVRSWIRGQ SGLYAPPIKG NLTCMSNITG MILQMDNTWN SSNN	NV
O_CM_MVP51 QLVRSWMKGE SRIYAPPIPG NLTCHSNITG MILQLDQPWN STGE	N
O_SN_99SE_ QVVRSWIQGG SGLYAPPRKG NLTCSSLITG MILQLDMPWN STNN;	3NA
O_SN_99SE_ QVVRSWIQGG SGLYAPPRPG YLTCNSSITG MILQLDKTWN RTNN;	3ES
U_CD83C QVVRTWQGVG QAMYAPPIEG TIRCSSNITG LLLTRDGGNG N	ATQNE

	551				
00BW0762 1	TFRPAGGDMR	DNWRSELYKY	KVVEIKPLGI	A DOLC A KADATA	600
00BW0768 2	IFRPGGGDMR	DNWRSELYKY	KAAEIKBTGA	WEISHVKKAA WEISHVKKAA	EREKR
00BW0874 2	IFRPOGGNMK	DNWRSELYKY	KAAELKETGA	WEITEWKKKAA	EREK.R
00BW1471 2	IFRPGGGNMR	DNWRSKT	KAARIKBTGA	WEIVAKKKAA	EREKR
00BW1616 2	TFRPAGGEMR	DNWRSELVKY	KVVEVKPLGI	APNKAKRRVV	EREK.R
00BW1686 8	TFRPGGGDMR	NNWRSELVKY	KVVEIRPLGI	APTEAKRRVV	QREKR
00BW1759 3	IFRPGGGDMR	DMMBSET.VKA	KVVKIKPLGI	APTEARRRVV	EREK.R
00BW1773 2	IFRPEGGDMR	DMMBSET.VKV	KAAKIKATGI	APTKAORRVV	KREKR
00BW1783 5	TFRPGGGDMR	DNWDWET.VKV	KVVEIKPLGV	APTKAKRRVV	EREK.R
00BW1795 6	IFRPIGGDMR	DNWPSELVKY	KAAEIKBFGF	APTSAKRRVV	EREK.R
00BW1811 3	TFRPGGGDMR	DNWPSELVKY	KVVEVKPLGL	APTESKRRVV	EREK.R
00BW1859 5	IFRPGGGDMR	NNWPSELVKY	KVVEIKPLGL	APTEAKRRVV	EREK.R
00BW1880 2	TFRPAGGDMR	DMMD SELVKY	KVVEIKPLGL	APTGAKRRVV	EREK.R
00BW1921 1	IFRPEGGDMK	MMMBGETAKA	KVVEIRPLGV	APTKAKRRVV	EREKR
00BW2036 1	TFRPEGGNMR	DWMDGELARA	KAAEIKBFGA	APTKAKRRVV	EREK
00BW2063 6	TFRPAGGDMR	DMMDGELVEV	KAAEIKBFGF	APTEAQRRVV	EKQK.R
00BW2087 2	TFRPGGGDMR	DWMDGET.VEV	VAAGTKERGE	APTKAKRRVV	EREK.R
00BW2127 2	TFRPGGGDMR	DMMDGELVEY	KVVEIKPLGV	APTKAKRRVV	EREK.R
00BW2128 3	TFRPVGGDMP	DWWDGETVEN	KVVEIKPLGV	APTKAKRRVV	EREK.R
00BW2276 7	TERPGGGDMD	DMMDGELAKA	KVVEIKPLGV	APTEAKRRVV	KREK.R
00BW3819 3	TER PEGENMA	DMMDCELVEN	KVVEVKPLGI	APTEAKRRVV	EREK.R
00BW3842_8	TERPOGGEME	DMMDCELAGA	KVVEVKPLGI	APTGAKRRVV	EREK.R
00BW3871 3	TERDEGGEME	DIMKSELIKY	KVVEIKPLGV	APTTAKRRVV	EREK.R
00BW3876 9	TED DCCCNIME	MINNERTAKA	KVVEIKPLGI	APTGAKRRVV	EREK.R
00BW3886 8	TED DOGGMIND	DMMKSELIKY	KVVEIKPLGV	APTEAKRRVV	EREK.R
00BW3891 6	TED DCCCDMD	DIMMENTAKA	KVVEIKPLGI	APTEAKRRAV	EREK.R
00BW3970 2	TEDDCCCMMY	DIWRSELYKY	KVVEIKPLGV	APTSAKRRVV	EREK
00BW5031 1	TELEGGGNIK	DIMMESETAKA	KVVEIKPLGI	APTGAKRRVV	GREK.R
96BW01B21	TEDDOCCOM	DIMKSELYKY	KVVEIKPLGI	APTKAKRRVV	EREK
96BW0407	TERREGGEDING	NUMESETAKA	KVVEIKPLGV	APTGAKRRVV	EREK.R
96BW0502	TERREGGERME	DIMESELYKY	KVVEIKPLGI	APTEARRRVV	EREKR
96BW06 J4	TERREGGENER	DNWRNELYKY	KVVEIKPLGV	APTEAKRRVV	EREK.R
96BW11 06	TERPIGGEME	MMMKSELYKY	KVVEIKPLGI	APTKAKRRVV	EREK.R
96BW1210	TERPAGGDMK	DNWRSELYKY	KVVEIKPLGL	APTKAKRRVV	EREK.R
96BW15B03	TERROGGNMK	DNWRSELYKY	KVVEVKPLGI	APTRAKRRVV	EREK.R
96BW16 26	TERREGGEME	DNWRNELYKY	KVVEIKPLGV	APTEAKRRVV	EREK.R
96BW17A09	TERPEGGDMK	DNWRSELYKY	KVVEIKPLGI	APTKAKRRVV	EREK.R
96BWMO1 5	TERREGGONMR	DNWRSELYKY	KVVEVKPLGV	APTAAKRRVV	EREK.R
96BWM01_3	TERREGGIME	DNWRSELYKY	KVVEIKPLGL	APTKSKRRVV	GREK.R
98BWMC12_2	TERPOGGNMK	DNWRSELYKY	KVVEIKPLGV	APTKAKRRVV	EREK.R
98BWMC12_2	TERREGGGDMR	DNWRSELYKY	KVVEIKPLGV	APTEAKRRVV	ERGKR
	TERPAGGDMR	DNWRSELYKY	KVVEIKPLGL	APTKAKRRVV	EREK.R
98BWMC14_a 98BWMO14_1	TEKEEGDMK	NNWRSELYKY	KVVEIRPLGT	ΔΡΤΩΔΚΌΡΙΛΙ	MORE D
98BWM018_d	TEKEGGGDMK	DMMRSELYKY	KVVEVKPLGT	Δ ΡΤΚ Δ Ο ΡΡίπι	מ שממש
	IFRPAGGDMR	DNMKSELYKY	KVVEIKPLGV	APSEAKRRIM	FDEV
98BWM036_a	TEKEGGGNMK	DUMKSELIKKA	RVVEIKPLGT	ΑΡΤΟΙΑΚΌΡΙΛΙ	PDPV D
98BWM037_d	IFRPGGGDMK	DNWRSELYKY	KVVEIKPLGT	ΔΡΥΕΔΚΌΡΙΜ	FDFV D
99BW3932_1	TEKEGGGDMK	DNWRSELYKY	KVVEIKPLGT	ΔΡΨΕΔΚΌΡΙΚΙ	ב אממע
99BW4642_4	TEKEGGGDMK	DRMKRELYKY	KVVEIKPLGV	ΔΡΤΚΔΚΌΡΙΛΙ	PDPV D
99BW4745_8	TERPEGGDMR	NUMESELYKY	KVVEIKPLGV	APTKAKRRIM	אבא
99BW4754_7	TEKETGGMMK	DMMKSELYKY	KVVEIKPLGI	ΑΡΤΚΑΚΡΡΙΛΙ	FDFKD
99BWMC16_8	TEKEGGGDMK	DNWRSELYKY	KVVEIKPLGI	APTEAKERIM	סעססס
A2_CD_97CD	TEKEGGGDMK	DMMKSELYKY	KVVKIEPLGT	ΔΡΥΕΔΡΟΡΙΚ	ODEV D
A2_CY_94CY	TEKEGGGDMK	DMMK2FFAKA	KVVKLEPLGV	ΑΡΨΡΑΚΌΡΙΑ	מ ששמש
A2D97KR	TERFGGGDMR	DIMKSELIKK	KVVKLEPLGV	ΑΡΤΡΑΦΦΦΙΛΙ	ששמש
A2G_CD_97C	ALKLAGGDMK	DNWRSELYKY	KVVKIKPLGT	<b>ΔΡΤΡΔΡΡΡΙΤΙ</b>	ם אסאס
A_BY_97BL0	TEKETYGDYK	NNWRSELYKX	KVVKIEPIXV	ΑΡΤΡΔΚΡΡΥΥ	ס אשמש
A_KE_Q23_A	TERFGGGDMR	DMMKSELYKY	KVVEIEPLGV	ΑΡΤΡΔΚΡΟιπι	ס עססס
A_SE_SE659	TEKEGGGDWK	DMMKSELAKA	KVVKIEPLGV	ΑΡΤΟΔΡΟΡΙΚΙ	מ ששמש
A_SE_SE725	TEKEGGGNMK	DNWRSELYKY	KVVKIEPLGV	ΑΡΤΡΑΡΡΡΙΤΙ	ODEK D
A_SE_SE753	TFRPGGGDMR	DNWRSELYKY	KVVKIEPLGV	APTKAKPRIM	EDEK D

A SE SE853	TED DCCCTNMD	DMMD CERT MAKE	77777777		
A SE SE889	TEDDCCCDMD	DWWESELIKY	KVVKIEPLGV	APTKAKRRVV	EREK.R
A SE UGSE8	TEXEGGGDIA	DWWKSELYKY	KVVKIEPLGV	APTKAKRRVV	EREK.R
A UG 92UG0	TEKEGGGDMK	DWAKSELAKA	KVVKLEPLGV	APTKAQRRVV	KREK.R
A_UG_U455_	TEKEGGGDMK	DIWKSELYKY	KVVKIEPLGV	APTKARRRVV	EREK.R
AC IN 2130	TERROGGOME	DNWKSELYKY	KVVKIEPLGV	APTRAKRRVV	EREK.R
	TERPOGGDMR	DWAKSELAKA	KVVKIEPLGV	APTRARRRAV	GREK.R
AC_RW_92RW	TERPGGGDMR	DNWRSELYKY	KVVKIEPLGV	APTRAKRRVV	EREK.R
AC_SE_SE94	TERPGGGDMQ	DNWRSELYKY	KVVQIEPLGV	APTKARRRVV	EREK.R
ACD_SE_SE8	TIRPAGGDMR	DNWRSELYKY	KVVKIEPLGV	APTKARRRVV	EREK.R
ACG_BE_VI1	IFRPGGGNMK	DNWRSELYKY	KVVEIKPLGV	APTKAKRRVV	EREK.R
AD_SE_SE69	TERPGGGDMR	DNWRSELYKY	KVVKIEPLGV	APTRAKERIM	EDEK D 17
AD_SE_SE71	TERPGGGDMR	DNWRSELYKY	KVVKIEPVGI	APNRAKRRVV	EREK D
ADHK_NO_97	TERPGGGDMR	DNWRSELYKY	KVVXXXPLGV	APTXARRRW	OREK P
ADK_CD_MAL	TERPGGGDMR	DNWISELYKY	KVVRIEPLGV	APTKAKRRVV	EREK D A
AG_BE_VI11	TERPGGGDMR	DNWRSELYQY	KVVKIKSLGV	APTKARRRIVI	EPEK D A
AG_NG_92NG	TERPGGGDMR	DNWRSELYKY	KIVKIKPLGI	APTKARRRW	ERGK D A
AGHU_GA_VI	TERPGGGDMR	DNWRSELYKY	KVVKIEPLGV	APTRARRRVV	EREK D A
AGU_CD_Z32	TERPGGGDMR	DNWRSELYKY	KVVKIEPLGV	APTKAKRRVV	ABEK D
AJ_BW_BW21	TETPTGRNMR	DNWRSELYKY	KVVKIEPIGV	APTRAKRRVV	GREK D A
B_AU_VH_AF	IFRPGGGDMR	DNWRSELYKY	KVVRIEPLGV	APTKAKRRVV	OPEK D A
B_CN_RL42_	TERPGGGDMR	DNWRSELYKY	KVVKIEPLGV	APTKARRRVV	OREK B A
B_DE_D31_U	TERPGGGNMR	DNWRSELYKY	KVVKIEPLGV	APTKAKRRIM	ODEK D A
B_DE_HAN_U	1FRPGGGNMR	DNWRNELYKY	KVVKIEPLGV	APTKAKRRVV	OPEK D 7
B_FR_HXB2_	IFRPGGGDMR	DNWRSELYKY	KVVKIEPLGV	APTKAKRRVV	ODEK D V
B_GA_OYI_	IFRPAGGDMR	DNWRSELYKY	KVVKIEPLGV	APTKARRRVV	OPEK D A
B_GB_CAM1	TFRPGGGDMR	DNWRSELYKY	KVVKIEPLGV	APTKAKRRVV	ODER D A
B GB GB8 C	TFRPGGGDMR	DNWRSELYKY	KVVKIEPLGV	APTKAKRRVV	ODER D 3
B GB MANC	TFRPGGGNMR	DNWRSELYKY	KVVKVEPLGT	APTKAKRRVV	OREK.KA
B KR WK AF	TFRPEGGNMK	DNWRSKLYKY	KVVRTEPLGT	APTRARRRVV	ODER D 3
B NL 3202A	IFRPGGGDMK	DNWRSELYKY	KWKIEDI.GV	APTRAKRRVV	QREK.RA
B TW TWCYS	VFRPGGGDMK	DIWRNELYKY	KWKVEDLGI.	APTRARRRVV	QREK.RA
B US BC LO	TFRPGGGDMR	DNWRSELYKY	KWKTEDLGU	APTTAKRRVV	QREK.RA
B_US_DH123	IFRPGGGDMR	DNWRSELVKY	KWDVEDLCT	APTKAKRRVV	QREK.RA
B_US_JRCSF	IFRPGGGDMR	DNWRSELVKY	KANKIEDICA	APTKAKRRVV	QREK.RA
B US MNCG	IFRPGGGDMR	DNWRSELVKY	KAMMIEDIGA	APTKAKRRVV	QREK.R
B US P896	IFRPGGGDMR	DNWRSELVKY	KAMBIEDICA	APTRAKERTV	QREK
B US RF M1	IFRLGGGNMR	DMMBSETAKA	KANDIEDIOA	APTRAKRRYV	QREK.R
B US SF2 K	VFRPGGGDMR	DWWDSELVKY	KALELDOA	APTKAKRRVV	QREK.RA
B_US_WEAU1	IFRPGGGNMK	DWWDSELVKY	WATERFIRE	APTKAKRRVV APTKAKRRVV	QREK.RA
B_US_WR27	TERPGGGDMP	DIMESCALANA	VANYTERPOA	APTKAKRRVV	QREK.RA
B_US_YU2_M	TERREGEDME	DIMEDIAN	KAAYTEBPGA	APTKXKRRVX	XREK.RX
BF1_BR_93B	TERREGENME	DIMESTIA	VAAKTEBFGA	APTKAKRRVV	QREK.RA
C_BR_92BR0	TEDDECCOMD	DIMESTICA	KAARTEBFGA	APTKAKRQVV	KREK.RA
C_BW_96BW0	TEGEGGENE	DIMESERIES	KAARTKAFGT	APTKAKRRVV	EREK.R
C BW 96BW1	TEDDACCOMO	DWWWSELTKY	KAARIKAFGI	APTEARRRVV	EREKR
C_BW_96BW1	TERRAGGUME	DIWRSELYKY	KVVEIKPLGL	APTKAKRRVV	EREK.R
C_BW_96BW1	TEDDOCCOME	DIMESETAKA	KVVEVKPLGI	APTRAKRRVV	EREK.R
C ET ETH22	TEDDECCOMP	DIMKNETAKA	KVVEIKPLGV	APTEAKRRVV	EREK.R
C_IN_93IN1	TERREGGUMR	DINNESELYKY	KVVEIKPLGV	APTKPKRRVV	EREK
C_IN_93IN1	TERPGGGDMR	DNWRSELYKY	KVVEIKPLGV	APTAAKRRVV	EREK.R
	TERPGGGDMR	DNWRSELYKY	KVVEIKPLGV	APTTAKRRVV	EREK.R
C_IN_93IN9	IFRPGGGDMR	NNWRSELYKY	KVVEIKPLGV	APTKAKRRVV	EREKRA
C_IN_94IN1	TEREGGGDMR	NNWRSELYKY	KVVEIOPLGV	APTEAKRRYV	ERCK P
C_IN_95IN2	TERPGGGDMR	DNWRSELYKY	KVVEVKPLGV	APTTAKRRVV	EBEK B
CRF01_AB_C	.FRPGGGNMK	DNWRSELYKY	KVVQIEPLGI	APTRARRRVV	EREK P
CRF01_AE_C	TERPGGGNIK	DNWRSELYKY	KVVQIEPLGI	APTKARRRVV	RREK D
CRF01_AE_C	TERPGGGNMK	DNWRSELYKY	KVVOIEPLGV	APTGAKRRVV	EDEK D
CRF01_AE_T	TERPGGGNIK	DNWRSELYKY	KVVQIEPLGI	APTRAKRRVV	EREK R
CRF01_AE_T	TERPEGGNIK	DNWRSELYKY	KVVQIEPLGI	APTRAKRRVV	EREK R
CRF01_AE_T	TFRPGGGNMK	DNWRNELYKY	KVVEIEPLGI	APTKAKRRYA	EDEK D
CRF01_AE_T	TERPGGGNIK	DNWRSELYKY	KVVEIEPLGI	APTRAKERYA	EDEK D
CRF01_AE_T	TFRPGGGNIK	DNWRSELYKY	KVVQIEPLGI	APTRAKRRVV	EREK P
				~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	

CRF01_AE_T	TFRPGGGNIK	DNWRSELYKY	KVVOIEPLGT	APSKAKRRVV	בספע ס
CRF02_AG_F	TFRPGGGDMR	DNWRSELYKY	KVVKIEPLGV	APTRPKRRVV	EREK.K
CRF02_AG_F	TFRPGGGDMR	DNWRSELYKY	KVVKIEPLGT	APTHAKRRVV	FDEK D
CRF02_AG_G	IFRPGGGNMR	DNWRSELYKY	KVVKIEPLGV	APTRAKRRVV	EDEK D
CRF02_AG_N	TFRPGGGDMR	DNWRSELYKY	KVVKIEPLGV	APTRAKRRVV	EDEK D
CRF02_AG_S	TFRPGGGDMR	DNWRSELYKY	KVVKIEPLGV	APSHAKRRVV	EDEKDY
CRF02_AG_S	TFRPGGGDMR	DNWRSELYKY	KVVKIEPLGV	APSHAKRRVV	EDEK D
CRF03_AB_R	IFRTGGGDMR	DNWRSELYKY	KVVKIEPLGV	APTRAKRRVV	OPEK P A
CRF03_AB_R	IFRPGGGDMR	DNWRSELYKY	KVVKIEPLGV	APTKAKRRVV	OPEK P A
CRF04_cpx_	IFRPGGGDMR	DNWRSELYKY	KVVKIEPIGV	APNKARRRVV	OPEK
CRF04_cpx_	TLRPGGGDMR	DNWRSVLYKY	KVVKIEPVGI	APTGARRRVV	OKEK D
CRF04_cpx_	TERPGGGDMR	DNWRSELYKY	KVVOIEPVGV	APTRARRRVV	OBEK B
CRF05_DF_B	IFRPGGGDMR	DNWRSELYKY	KVVEIOPLGI	APTRAKROVV	KDEK D V
CRF05_DF_B	TFRPGGGDMR	DNWRSELYKY	KVVEIEPLGV	APTRAKROVV	OPEK D A
CRF06_cpx_	TERPGGGDMR	DNWRSELYKY	KVVKIKPLGI	APTWARRRW	CPEK D A
CRF06_cpx_	TFRPGGGDMR	DNWRNELDKY	KVVKIKPLGI	APTRARRRW	CKEKDA V
CRF06_cpx_	TIREGGGDMR	DNWRNELYKY	KVVKIKPLGI	APTEARRRY	CDEK D V
CRF06_cpx_	TERPGGGNMK	DNWRSELYKY	KVVKIKPLGI	APTKARRRRATI	CDEKDA 17
CRF11_cpx_	TERPTGGDMR	DNWRSELYKY	KVVEIKPLGV	<b>ΑΡΤΡΑΚΡΡΙΤΙ</b>	א משושה
CRF11_cpx_	TERPTGGDMR	NNWRSELYKY	KVVEIKPLGV	APTKAKPRIM	EDEK D A
D_CD_84ZR0	TERPGGGDMR	DNWRSELYKY	KVVKIEPLGV	APTKAKPRIM	EDEK D X
D_CD_ELI_K	TFRPGGGDMR	DNWRSELYKY	KVVOIEPLGV	APTRAKRRIM	EDEK D V
D_CD_NDK_M	TIRPGGGDMR	DNWRSELYKY	KVVKIEPIGV	APTKARRRW	א פאקפים
D_UG_94UG1	TERPGGGDMR	NNWRSELYKY	KVVKLEPIGL	APTAAKRRVV	EDEK D V
F1_BE_VI85	TERPEGGNMK	DNWRSELYKY	KVVEIEPLGV	APTKAKROW	OPEK D A
F1_BR_93BR	TERPGGGNMK	DNWRSELYKY	KVVEIEPLGV	APTKAKROVA	KDED D A
F1_FI_FIN9	TEREGGGDMK	DNWRSELYKY	KVVEIEPLGV	APTRPKRPIM	א מישׁמּס
F1_FR_MP41	TERPEGGNMK	DNWRNELYKY	KVVEIEPLGV	APTKARRRYY	OPED D A
F2_CM_MP25	TLRPGGGDMR	DNWRSELYKY	KVVKIEPLGV	APTKAKROW	OPEK D A
F2KU_BE_VI	TFRPGGGNMK	DNWRSELYKY	KVVKIEPLGI	APTKARRRW	OPEK P C
G_BE_DRCBL	TEKEGGGDMK	NNWRSELYKY	KTVKIKSLGT	APTRAPPRINT	א פששם
G_NG_92NG0	TERPGGGDMR	DNWRSELYKY	KTVKIKSLGV	APTRARRRITA	EDEK D A
G_SE_SE616	1 FRPGGGDMR	DNWRSELYKY	KTVKIKSLGV	APTRARRRIVI	EDEK D A
H_BE_VI991	TERPGGGDMR	DNWRSELYKY	KVVKIEPLGV	APTEARRRY	EDEK D
<b>H_BE_VI997</b>	TERPGGGDMR	DNWRSELYKY	KVVKIEPLGV	APTEARRRY	EDEK D
H_CF_90CF0	TERPGGGDMR	DNWRSELYKY	KVVKIEPLGI	APTKTRRRW	EDEK D
J_SE_SE702	TERPTGGNMK	DNWRSELYKY	KVVELEPLGV	APTKAKPRIM	א פאשפש
J_SE_SE788	TERPTGGNMK	DNWRSELYKY	KVVEIEPLGV	APTKAKRRIM	EDEK D 7
K_CD_EQTB1	TERPGGGDMR	DNWRSELYKY	KVVOIEPLGI	APTRARRRYN	OPEK D A
K_CM_MP535	TERPGGGDMR	DNWRSELYKY	KVVOIEPLGT	ΑΡΤΡΑΡΡΡΙΛΙ	א משפע
N_CM_YBF30	IVYPSGGNMV	NLWRQELYKY	KVVSIEPIGV	APGKAKRRTW	מ מאשמפ
O_CM_ANT70	TERPIGGDMK	DIWRTELFNY	KVVRVKPFSV	APTRIARPUT	מאם מערקיים
O_CM_MVP51	TLKPVGGDMK	DIWRTKLYNY	KVVOIKPFSV	APTKMSRPTT	MTHTDHDEVD
O_SN_99SE_	TFRPTGGDMK	DIWRTELFKY	KVVKVKPFSV	APTKIARPVT	GTGTOR EKD
O_SN_99SE_	TERPIGGDMK	DIWRTELFKY	KVVKIKPFSV	APTKIARPUT	СТСТРР БКР
U_CD83C	TFRPGGGDMK	DNWRSELYKY	KVVKIEPLGV	APTRAKRRVV	EREK.R.

	601				650
00BW0762_1	AVGIGAVFLG	.FLGAAGSTM	GAASITLMVO	ARQLLSGIVQ	OCO ST KG.T.TIMMOO
00BW0768_2	AVGIGAVLLG	. FLGAAGSTM	GAASITLTVO	ARQVLSGIVQ	
00BW0874_2	AVGIGAVFLG	. FLGAAGSTM	GAASMTLTVO	ARQLLSGIVQ	OUSMITTE
00BW1471_2	AVGLGAVFLG	. FLGAAGSTM	GAASITLTVO	ARQLLSGIVQ	OUMIT WENTE
00BW1616_2	AVGIGAVFLG	.FLGAAGSTM	GAASITLTVO	ARQLLSGIVQ	OUMILITATE
00BW1686_8	AVGIGAVLLG	.FLGAAGSTM	GAASMTLTVO	ARQLLSGIVQ	OUGNITION TO
00BW1759_3	AVGIGAVFLG	.FLGAAGSTM	GAASITLTVO	ARQLLSGIVQ	OOGMIIDATE
00BW1773 2	AVGIGAMFLG	.FLGAAGSTM	GAASTTITVO	ARQLLSGIVQ	OCCULIBATE
00BW1783_5	AVGIGAVFLG	.FLGAAGSTM	GAASITLTVO	VRQLLSGIVQ	OCMULIBATE
00BW1795_6	AVGIGAVFLG	.FLGAAGSTM	GAASITLTVO	ARQLLSGIVQ	OOGMITDYIE
00BW1811_3	AVGIGAVFLG	. FLGAAGSTM	GAASMTLTVO	ARQLLSGIVQ	OCCULTANTE
00BW1859 5	AVGIGAVFLG	. FLGAAGSTM	GAASTTITAO	ARQVLSGIVQ	OCCULIANTE
00BW1880 2	AVGIGAVFLG	.FLGAAGSTM	GAASMTLTVO	ARQLLSGIVQ	OCCULTBALL
00BW1921 1	RAALGAVLLG	.FLGAAGSTM	GAASTTITVO	ARQLLSGIVQ	OOGMIIWATE
00BW2036 1	AVGMGAVFLG	.FLGAAGSTM	GAASTTLTVO	ARQLLSGIVQ	OCCULTBYER
00BW2063_6	AVGIGAVFLG	.FLGAAGSTM	GAASITITVO	ARQLLSGIVQ	OOGNIIDATE
00BW2087 2	AVGIGAVFLG	.FLGAAGSTM	GAASTTITVO	TKQLLSGIVQ	OOGMIINAIE
00BW2127_2	AVGMGAVILG	.FLGAAGSTM	GAASITITVO	ARQLLFGIVQ	OUNTLUATE
00BW2128_3	AVGIGAVFLG	.FLGAAGSTM	GAASITITVO	ARQLLSGIVQ	OOGMIIDATE
00BW2276 7	AVGIGAVFLG	.FLGAAGSTM	GAASTTITVO	ARQLLFGIVQ	OOCMITRATE
00BW3819_3	AVGIGAVFLG	.FLGAAGSTM	GAASITLTTO	ARQLLSGIVQ	OCCULTBALE
00BW3842_8	AVGMGAMILG	.FLSAAGSTM	GAASITITVO	ARQLLSGIVQ	OCCULTBALL
00BW3871_3	AVGIGAVFLG	.FLGAAGSTM	GAASITLTAO	ARQLLSGIVQ	OOGNII DY TH
00BW3876 9	AVEIGAVFLG	.FLGAAGSTM	GAASTTTTVO	ARQLLSGIVQ	OCCULTUATE
00BW3886 8	AVGIGAVILG	.FLGAAGSTM	GAASTTTTAO	ARQLLSGIVQ	OCCULTRATE
00BW3891 6	RAAIGAMFLG	FLGAAGSTM	GAASITLTVO	ARKLLSGÏVQ	ÖÖSMTIKATE
00BW3970_2	AVGIGAVFLG	.FLGAAGSTM	GAASITLTVO	ARQLLSGIVQ	OCCULTANTE
00BW5031 1	RAALGAVFLG	. FLGAAGSTM	GAASITITVO	ARQLLSGIVQ	OCCULT DATE
96BW01B21	AVGIGAVFLG	.FLGAAGSTM	GAASTTLTVO	ARQLLSGIVQ	QQSNILLRATE
96BW0407	AVGIGAVFLG	.FLGAAGSTM	GAASITITVO	ARQLLSGIVQ	OOGMIIDATE
96BW0502	AVGIGAVCLG	. FLGAAGSTM	GAASTTLTVO	ARLLLSGIVQ	OOMILIBATE
96BW06_J4	AVGIGAVFLG	.FLGAAGSTM	GAASTTLTVO	AKQLLSGIVQ	OOCMITMATE
96BW11_06	AVGIGAVFLG	.FLGAAGSTM	GAASITITVO	ARQLLSGIVQ	OOGMITDVIE
96BW1210	AVGIGAVFLG	.FLGAAGSTM	GAASITITVO	ARQLLSGIVQ	OOCMI I DA I H
96BW15B03	AVGIGAVIFG	.FLGAAGSTM	GAASITLTAO	ARQLLSGIVQ	OOGMITDATE
96BW16_26	AVGIGAVFLG	.FLGAAGSTM	GAASITLTVO	ARQLLSGIVQ	OUGNITION TO
96BW17A09	AVGLGAVFLG	.FLGAAGSTM	GAASITLTVO	ARQLLSGIVQ	OUGMIT DY LES
96BWMO1_5	AVTFGAMFLG	.FLGAAGSTM	GAASMTLTVO	ARQLLSGIVQ	OOGNET DATE
96BWMO3_2	AVGIGAVLLG	.FLGTAGSTM	GAASITLTVO	ARQVLSGIVQ	OOGNITE
98BWMC12_2	AAGLGAVLFG	.FLGAAGSTM	GAASITLTVO	ARQLLSGIVQ	OUGNITE DY TE
98BWMC13_4	AVGIGAVFLG	.FLGAAGSTM	GAASITLTVO	VRQLLSGIVQ	OOSNIT.DATE
98BWMC14_a	AVGVAAVFLG	.FLSAAGSTM	GAASITLTVO	AROSTISCTVO	OOGNIT, I, D A T E
98BWMO14_1	AVGIGAVELG	.FLGAAGSTM	GAASITLTVO	AROLLSGIVO	OOSNIT, I.DA TE
98BWM018_d	RAALGAVFLG	.FLGAAGSTM	GAASITLTVO	TRKLLSGIVQ	OOSMITKATE
98BWMO36_a	AVTLGAMFLG	.FLGAAGSTM	GAASITLTVO	ARQLLSGIVQ	OOSMILDATE
98BWM037_d	AVGIGAVFLG	.FLGAAGSTM	GAASITLMVO	ARQLLSGIVQ	OOSMILDATE
99BW3932_1	AVGLGAVFLG	.FLGAAGSTM	GAASITLTVO	AROLLSGIVO	
99BW4642_4	AVGIGAVLLG	.FLGAAGSTM	GAASIALTAO	ARQVLSGIVQ	OOSMILDATE
99BW4745_8	RAIAGAVFLG	.FLGVAGSTM	GAASVALTVO	ARQLLSGIVQ	OOSMILIDATE
99BW4754_7	AVGIGAVFLG	.FLGAAGSTM	GAASITLTVO	AROLLSGTVO	OOSMILIDATE
99BWMC16_8	AVTIGAMFLG	FLSAAGSTM	GAASITLTVO	AROLLSGIVO	OOSMIT.DATE
A2_CD_97CD	AVGLGAVFLG	.FLGAAGSTM	GAASITLTVO	ARQLLTGIVQ	OOSNIJ.KATE
A2_CY_94CY	AVGLGAVFLG	.FLGAAGSTM	GAASLTLTVO	ARQLLSGIVQ	OOSNITO
A2D97KR	RAAVGLFFLG	. FLGAAGSTM	GAASVTLTVO	AROLLSGIVO	OOSNIJKATE
A2G_CD_97C	AVGLGAVFLG	.FLGAAGSTM	GAASITLTVO	AROLISCIVO	OUMILITANTE
A_BY_97BL0	AIGLXAAFLX	.FLGAAXSTX	GAASMTLTVO	AROLLSGIVO	OOSNIT.YATY
A_KE_Q23_A	AVGIGAVFLG	.FLGAAGSTM	GATSITLTVO	AROLLSGIVO	OOMNIT.T.DATE
A_SE_SE659	AVGLGAVFIG	. FLGAAGSTM	GAASITLTVO	AROLLSGTVP	OUSMIT.KVIE
A_SE_SE725	AAGEGALLIG	.FLGAAGSTM	GAASITLTVQ	AROLLSGIVO	OOSMITE ATE
A_SE_SE753	AVGIGAVFLG	. FLGAAGSTM	GAASITLTVO	AROLLSGIVO	COUNTINGE
				×	XXOMPHYMIC

3 CD CDOC3	* TOTO:				
A_SE_SE853	AIGIGAVFIG	. FLGAAGSTM	I GAASITLTVÇ	ARQLLSXIVO	QQSNLLRAIE
A_SE_SE889	AIGIGAVFIG	· FIGHAGS IN	GAASITLTVC	AROLLSGIVO	OOGNITANATE
A_SE_UGSE8	AVGLAAVFFG	· L DGWWG2 IM	I GAASITLITVO	AROLLSGIVO	OCATATT.T.DATE
A_UG_92UG0	AVTLGAVFIG	. FLOSTAGSTM	GAASITLTVO	ARKILISGIVO	OOGNITION TO
A_UG_U455_	AVGLGAIFLG	· FUGHAGS IM	GAASITLIVO	AROLLSGIVO	OOGNITED ATT
AC_IN_2130	AVGIGAVFLG	· LUGAAGSIM	GAASITLTVO	AROLLSGIVO	OOGNIT.T.DATE
AC_RW_92RW	AVGLGAVFIG	.FLGAAGSTM	GAASITLTVO	ARQLLSGIVQ	STANDUNGOO
AC_SE_SE94	AVGMGAVFIG	.FLGAAGSTM	GAASVTTTVO	ARQLLSGIVE	OCCUPATE
ACD_SE_SE8	AVGIGAVFLG	.FLGAAGSAM	OMPT TTA CA CA C	ARQLLSGIVQ	QQSNLLRATE
ACG BE VI1	AVGIGAVFLG	FLGAAGSTM	Gyyclaim an to	WKOPPRGIA	QQSNLLKAIE
AD SE SE69	AG.LGAVFIG	FLGAAGGTM	CAMOTITIVO	ARQLLSGIVQ	QQSNLLRAIE
AD SE SE71	AVGIGVVFFG	FLGAAGGTM	CVVCIMILMAC	ARQLLSGIVQ	QQNNLLKAIE
ADHK NO 97	AVGMGAFFLG	FI.CAACCOM	GAASITLIVQ	ARQLLSGIVQ	QQSNLLRAIE
ADK CD MAL	IG.LGAMFLG	FICAAGSIM	GAASITLTVQ	ARQLLSGIVQ	QQSNLLKAIQ
AG BE VI11	VGLG.AVFLG	. FLGAAGSTM	GAASLTLTVQ	ARQLLSGIVQ	QQNNLLRAIE
AG_NG_92NG	VGLG.AVFLG	. FLGAAGSTM	GAASITLTVQ	VRQLLSGIVQ	QQSNLLRAIE
AGHU GA VI	IVGVGAVFLG	· FUGAAGS IM	GAGSTILIVO	VROLLSGTVO	OOGNIT.T.DXTD
		FLGVAGSTM	GAASITLTVO	AROLLSGIVO	OOGMI.I.VX TD
AGU_CD_Z32	AIGMGAFFLG	• FLGAAGSIM	GAASITLTVH	VROLLSGIVO	OOGMI.I.DATD
AJ_BW_BW21	VGIMGAMFLG	FLGTAGSTM	GAASITLTVO	AROLLSGIVO	OOSNIT, I.WA TE
B_AU_VH_AF	VGMIGAMILG	• FLGAAGSTM	GAASLALTVO	TROLLSGIVO	OOMMILTO A TO
B_CN_RL42_	VGTIGAMFLG	· FLGAAGSTM	GAASITLTVO	AROLLSGIVO	OODMITTO A TO
B_DE_D31_U	VGLLGAVFLG	. FLGAAGSTM	GARSMALTVO	AROLLSGIVO	מד ג מ.ז.דווווח
B_DE_HAN_U	VGMLGAMFLG	.FLGAAGSTM	GARSLTLTVO	ARQLLSGIVQ	OUMIL I DA EN
B_FR_HXB2_	VG.IGALFLG	.FLGAAGSTM	GAASMTLTVO	ARQLLSGIVQ	OOMILIATE
B_GA_OYI	VGMLGAMFLG	. FLGAAGSTM	GARSMTLTVO	ARQLLSGIVQ	QQMMLLRATE
B_GB_CAM1_	VGAIGALFLG	.FLGAAGSTM	GAVAT.TT.TVO	TRQLLSGIVQ	QQNNLLRAIE
B_GB_GB8_C	VGMIGAMFLG	. FLGAAGSTM	CANCILLITYO	ARLLLSGIVQ	QQNNLLRAIE
B GB MANC	VGMLGAMFLG	. FLGAAGSTM	CARCITITIVO	WENTING I AG	QQNNLLRAIE
B_KR WK AF	VT.FGALFLG	FLGAAGGTM	GUICHMIT III.	ARQLLSGIVQ	QQNNLLRAIE
B_NL_3202A	VG. IGALFLG	FI.CDARGSIM	GCISMITITVQ	ARLLLSGIVQ	QQNNLLRAIE
B TW TWCYS	VG. IGALFLG	FICARGSIM	GAASITLIVQ	ARQLLSGIVQ	QQNNLLRAIE
B US BC LO	VG.IGALFLG	FICAAGSIM	GAASLTLTVQ	ARQLLSGIVQ	QQNNLLRAIE
B_US DH123	VG. IGAVFLG	. FLGAAGSTM	GAASMTLTVQ	ARQLLSGIVQ	QQNNLLRAIE
B_US_JRCSF	AVGIGALFLG	. LTGWWG2 IM	GAASITLTVO	AROLLSGIVO	OOMIT T DATE
		· LUGWWGO IM	GARSMILIVO	AROLLSGTVO	$\bigcap \bigcap MMIT.T.DATD$
B_US_MNCG_	RAAIGALFLG	· LTGWAG2 IM	GAASVILIVO	ARTITISCIVO	
B_US_P896_	AVGIGAVFLG	. LTGWWGRIM	GAASVTLTVO	ARLIJISGTVO	CONTATE A CLITATION
B_US_RF_M1	VGTIGAMFLG	. FLGAAGSTM	GAGSITLTVO	ARHLLSGTVO	OOMNIT.T.DATE
B_US_SF2_K	VGIVGAMFLG	. FLGAAGSTM	GAVSLTLTVO	AROLLSGTVO	OOMNITE A GLITIKKOO
B_US_WEAU1	VGMLGAMFLG	. FLGAAGSTM	GAASMTLTVO	ARLIJISGTVO	OOMNET TO A TER
B_US_WR27_	VGVIGVMFLG	. FLGAAGSTM	GAASITLTVO	AROLLSGTVO	OOMAT T DATE
B_US_XUS_W	VG.LGALFLG	MICOMMONIA	GAASITLTVO	AROLLSGTVO	OOMNIT, T. D. X. TER
BF1_BR_93B	VG.MGALFLG	· L TOWAGO I M	GAASTTLTAO	APOI.I.CGTVA	OOMER T THEO
C_BR_92BR0	AVGIGAVFLG	* L'TICHAGO I M	GAASITITVO	VPOLLOGITO	000MT T N 3 7 7
C_BW_96BW0	MACTOMATING	· L DOWNOS IM	GAASTTITVO	ADOI.I.CCTVA	000MT T 55
C_BW_96BW1	TAGTOVATOG	- FLIGHAGSTM	GAASTTITTO	ADDIT.COTUA	000077 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
C_BW_96BW1	AVGIGAVFLG	.FLGAAGSTM	GAASTTLTVO	WCCTTPGGT AO	QQSNLLRAIE
C_BW_96BW1	AVGIGAVIFG	.FLGAAGSTM	GAASTTI.TAQ	ARQUIDGIVQ	QQSNLLRAIE
C ET ETH22	RAALGALFLG	.FLGAAGSTM	CANCITE SAAS	ARQLLSGIVQ	QQSNLLRAIE
C IN 93IN1		. FIGAAGSTM	CVALITITAC	WKÖTTSGIAÖ	QQSNLLKAIE
C IN 93IN9		FI.GAAGCTM	CAASIILIAQ	ARQLLSGIVQ	QQSNLLRAIE
C IN 93IN9		FI.GAAGGIM	CAASITITVQ	ARQLLSGIVQ	QQSNLLRAIE
C_IN_94IN1		FIGD ACCUMA	CAASITLIVQ	ARQLLSGIVQ	QQSNLLRAIE
C IN 95IN2		* TOWNCO IM	GAASITLTVQ	ARQLLSGIVQ	QQSNLLRAIE
CRF01 AE C		THE CARGETM	GAASITLTVQ	ARQLLSGIVQ	QQSNLLRAIE
CRF01_AE_C	HACTOMITEG	. FLIGAAGSTM	GAASLTLTVQ	AROLLSGIVO	OOSNITADATE
	MANAGEMENT	· FLGAAGSTM	GAASITLTVQ	AROLLSGIVO	OOSNIT.T.DATE
CRF01_AE_C	MAGIGMATEG	. FLGAAGSTM	GAASITLTVQ	AROLLSGIVO	OOSMIJ.TOTTE
CRF01_AE_T	MAGIGMITEG	. FLGAAGSTM	GAASITLTVQ	AROLLSGIVO	OOSMT.T.DATE
CRF01_AE_T	MAGIGMMILEG	. FLGAAGSTM	GAASITLTVQ	AROLLSGIVO .	OOSMIJDATE
CRF01_AE_T	TIVOTOMITEG	· FLGAAGSTM	GAASTTITUO	APOLL COTTO	00000 - 55
CRF01_AE_T	HAGIGWHILG	· FLGAAGSTM	GAASTTTTWO	ADOLL COTTO	000177
CRF01_AE_T	AVGIGAMIFG	. FLGAAGSTM	GAASITLTVO	AROLLSGIVO	UUSMITION TE
			• •	~=====	XXNMTIKHTD

CRF01_AE T	AVGIGAMIFG	.FLGAAGSTM	GAASITLTVO	ARQLLSGIVQ	OOSNIJRATE
CRF02 AG F	AVGLGAVFLG	.FLGAAGSTM	GAASITLTVO	ARQLLSGIVQ	OOSNIJRATE
CRF02_AG_F	AVGLGAVFFG	.FLGAAGSTM	GAASITLTVO	ARQLLSGIVQ	OOSNIJRATE
CRF02 AG G	AVGLGAVFLG	.FLGAAGSTM	GAASITLTVO	ARQLLSGIVQ	OOSNIJBATE
CRF02_AG_N	AVGLGAVFLG	.FLGAAGSTM	GARSITUTVO	ARQLLSGIVQ	OOSMITKATE
CRF02_AG_S	LVGLGAFFFG	.FLGAAGSTM	GAASTTITVO	ARQLLSGIVQ	OOGMITI'KY IE
CRF02 AG S	AVGLGAVFLG	.FLGAAGSTM	GAASITLTVO	ARQLLSGIVQ	OOMMIT'RY IE
CRF03 AB R	VG.IGAVFLG	.FLGAAGSTM	GAASTTTTVO	ARQLLSGIVQ	OUMITTE
CRF03 AB R	VG.IGAVFLG	.FLGAAGSTM	GAASITITVO	ARQLLSGIVQ	OOMMILIDATE
CRF04 cpx	AVGIGAMFLG			ARQLLSGIVQ	
CRF04 cpx	AVGLGALFLG	.FLGAAGSTM	GAASLTLTVO	ARQLLSGIVQ	OLEVITA STE
CRF04 cpx	AVGIGAVFPG	LFLGAAGSTM	GAASTTTTVO	ARQLLFGIVQ	OOSMILDATE
CRF05 DF B	MG.IGAMFLG	.FLAAAGSTM	GAASTALTVO	ARQLLSGIVQ	OUMITION IE
CRF05 DF B	VG.VGALLIG	.FLGAAGSTM	GAASMTLTVO	ARQLLSGIVQ	COMMITTORE
CRF06 cpx	VGLG.AMFLG	.FLGTAGSTM	GAASITITVO	VRQLLSGIVQ	OOSMILIDATE
CRF06 cpx	VGLG.AVFLG	.FLGTAGSTM	GAASTTITVO	VRQLLSGIVQ	OOSMITDATE
CRF06 cpx	VGIG.AFFLG	.FLGTAGSTM	GAASTTITVO	VRQLLSGIVQ	
CRF06 cpx	VGLG.AVFLG	. FLGTAGSTM	GAASTTLTVO	VRQLLSGIVH	OOGNIT.I.DATE
CRF11_cpx_	VGIG.AVLFG	FLGAAGSTM	GAASTTTTVO	VRQLLSGIVQ	OOGNITIKATE
CRF11 cpx	VGIG.AVLLG	. FLGAAGSTM	GAASTTITVO	ARQLLSGIVQ	OOMMIT'RY LE
D CD 84ZRO	IG.LGAMFLG	. FLGAAGSTM	GAASMTLTVO	ARQVLSGIVQ	OUMILIDATE
D CD ELI K	IG.LGAMFLG	. FLGAAGSTM	GARSVITTIVO	ARQLMSGIVQ	
D CD NDK M	IG.LGAVFLG	. FI GAAGSTM	GAASVTLTVO	ARQLMSGIVH	
D UG 94UG1	IG.LGALFLG	FIGTAGSTM	GAVSLTLTVO	ARQVLSGIVQ	OOMNITE TE
F1 BE VI85	AG.LGALFLG	FLGDSREHM	GAASTTLTVO	ARQLLSGIVQ	OOMNIT DY TE
F1 BR 93BR	VG.LGALFLG	FLGAAGSTM	GAASTTITVO	ARQLLSGIVQ	OUGNITION IE
F1 FI FIN9	VA.IGAVFLG	FISAAGSTM	GAASITITVO	ARQLLSGIVQ	COMMITTONTE
F1 FR MP41	VG.IGALFLR	FLGAAGSNT	GAASTTTTVO	ARQLLSGIVQ	OOMNITE
F2 CM MP25	VG.MGAMFLG	.FLGAAGSTM	GAASTTLTVO	ARNLLSGIVQ	OOGMITKVIE
F2KU BE VI	AG.LGALFLG	. FIGAAGSTM	GAASTTTTVO	ARQLLSGIVQ	OOGDIJATE
G BE DRCBL	VGVG.AIFLG	FLGTAGSTM	GAASITITVO	VRQLLSGIVQ	OOSMILDATE
G NG 92NG0	VGLG.AVFLG	. FLGAAGSTM	GAASTTITAO	VRQLLSGIVQ	OUSMITTE TE
G SE SE616	VGLG.AVFLG	. FLGAAGSTM	GAASTTITVO	VRQLLSGIVQ	OOGMITD ATE
H BE VI991	AVGMGAFFLG	.FLGAAGSTM	GAASITITVO	ARQLLSGIVQ	OLEGITIMSOO
H BE VI997	AVGMGAFFLG	.FLGAAGSTM	GAASTTITVO	ARQLLSGIVQ	OUSVITION
H CF 90CF0	AVGMGASFLG	.FLGAAGSTM	GAASITLTVO	ARQLLSGIVQ	OTAGLITIZOO
J SE SE702	VGIG.AVFLG	.FLGTAGSTM	GAASTTITVO	VRQLLSGIVQ	OUGNITI'NY IX
J_SE_SE788	VGIG.AVFLG			VRQLLSGIVQ	
K CD EQTB1	VG.IGALFLG	.FLGAAGSTM	GAASITITVO	ARQLLSGIVQ	OUMITIDATE
K CM MP535	VG.LGAVFFG	.FLGAAGSTM	GAASITITVO	ARQLLSGIVQ	OOSNITE
N CM YBF30	AFGLGALFLG	.FLGAAGSTM	GAASITITVO	ARTLLSGIVQ	OONTLLDATE
O CM ANT70	AVGLGMLFLG	.VLSAAGSTM	GAAATTLAVO	THTLLKGIVQ	OUDMITERATO
O CM MVP51	AVGLGMLFLG	.VLSAAGSTM	GAAATALTVR	THSVLKGIVQ	OODNITERATO
O SN 99SE	AVGLGMLFLG	.VLSAAGSTM	GAAATALAVO	TQSLMKGIVQ	CODNITIRATO
O SN 99SE	AVGLGMLFLG	.VLSAAGSTM	GAAATTLAVO	THTLMKGIVQ	CODNITIBATO
U CD 83C	AVGMGALFLG	.FLGAAGSTM	GAASMALTAO	ARQLLSGIVQ	CONNTITRATE
<del>-</del>	_		<b>-</b>		

	651				
00BW0762_1		WGT KOT OTPV	LAIERYLKDQ	OT T GTWGGGG	700
00BW0768 2	AOOHMLOLTV	WGTKOT,OTPV	LAIERYLKDQ	OLICIWGCSG	KLICTTAVPW
00BW0874 2	AOOHMLOLTV	WGTKOLOARV	LAIERYLKDQ	QULGLWGCSG	KLICTISVHW
00BW1471 2	AOOHMLOLTV	WGTKOLOARV	LALERYLQDQ	OFFCERGCSG	KLICTTAVPR
00BW1616 2	AOOHMLOLTV	WGTKOT OARV	LAIERYLRDQ	OLIGINGUSG	KTICLIBABA
00BW1686_8	VTJOJIMHOOA	WGTKOT.OTPV	LAMERYLKDQ	OLIGINGCSG	KLICIINVPW
00BW1759 3	VT.TO.TMHOOA	WGTNOT.OTDV	LAIERYLKDQ	OFFGERMGCSG	KIICITNVPW
00BW1773 2	VT.TO.I.THOOA	MGIKOLOTEV	LSIERYLQDQ	OFF CINCESC	KLICTTAVPW
00BW1783 5	VT.TO.TMHOOA	MGTKOTONDA MGTKOTONDA	LAIERYLKDQ	QLLGIWGCSG	KLICTTAVPW
00BW1795 6	ACOHMI-OT-TV	WGIKOLOTEV	LAIERYLKDQ	OFFGIMGCSG	KLICTTAVPW
00BW1811 3	ACCHILIOLTY	MGTKOT ON DV	LAIERYLKDQ	OFTGIMGCSG	KLICTTAVPW
00BW1859 5	VT.TO,TMHOOA	WGIKOI.OTDW	LAIERYLKDQ	OFFGINGCSG	KLICTTAVPW
00BW1880 2	VT-TO-IMHOOA	WGTKOT.OAPV	LAIEKYLKDQ	OFFCRACCSC	KTICLTAADA
00BW1921_1	VTITOLITHOOA	WCIKOLOTOW WCIKOLOTOW	LAIERYLKDQ	QLLGMWGCSG	KIICTTTVPW
00BW2036 1	VILIQUELLIQUE	MGIKOLONDII	TATERITADO	OTTGIWGCSG	KLICTTSVPW
00BW2063 6	VT.TO.TMHOOA	WGTKOT.OTDW	LAIERYLRDQ	OTT GENGCSG	KLICTTTVPW
00BW2087 2	VITTOTTHOOG	MGIKOTOYDA	LAIERYLKDQ	QLLGIWGCSG	KLICPTAVPW
00BW2127 2	VT.TO.T.THOOA	MGIKOTOTOT	LAIERYLKDQ	Opposit MCCSC	KLICTTAVPW
00BW2128_3	ARRHITOLTV	MGTKOTOTDV	LAIESYLKDQ	RILIGIWGCSG	KLICTTAVPW
00BW2276 7	VT-TO-IMHOOA	MGIKOTOYBA	LAIERYLKDQ	OTT CITY CES	KLICTTAVPW
00BW3819 3	VT.TO.T.THOOA	MGIKOTOMBA	LAIERYLKDO	OTTGIMGC2G	KLICTTAVPW
00BW3842 8	ALTOTHHOUS	MGIKOTOYDY	LAVERYLKDQ	OPPGIMGCSG	KLICTTNVPW
00BW3871 3	VITTO TMHOOA	MGIKOTOTOTO	LAIERYLKDQ	QLLGIWGCSG	KLICTTNVPW
00BW3876 9	ALTOTHIODE	MGIKOTOMBA	LAIERYLKDQ	QLLGLWGCSG	KLICTTNVPW
00BW3886 8	ALIGHTING A	MGIKOLONDA	LAVERYLKDQ	QLLGIWGCSG	KLICTTNVPW
00BW3891 6	AUCTIMICOT.	WGIKOLOWDW	LAMERYLODO	<b>OPPGIMGC2</b>	KLICTTAVPW
00BW3970 2	ALTIOTTHHOU	MGIKOTOYDY	LAIERYLKDQ	QLLGIWGCSG	KLICTTNVPW
.00BW5031 1	VT-IQ-IMHOOA	MGIKOTONDA	LAIERYLKDQ	QLLGIWGCSG	KLICTTAVPW
96BW01B21	AUCHWIOT.	MGINQLQARV	LAIERYLRDQ	QLLGIWGCSG	KIICTTAVPW
96BW0407	AUCHMIOTIA MITTOTIME	MGINOTOWN	LAIERYLKDQ	OTTGIMGCSG	KLICTTNVPW
96BW0502	ALIGHTIOT A	MGIKOLOTO	LAIERYLKDQ	QLLGIWGCSG	KLICTTNVPW
96BW06 J4	ALIGORATION AND A	MGIKOIOMAI	LAVERYLKDQ	QLLGIWGCSG	KLICTTAVPW
96BW11 06	AUCHWIOTIAN ALICENTANCE	MGIKOT OMDIA	LAIERYLKDQ	QLLGFWGCSG	KLVCTTAVPW
96BW1210	AUCHWHOOT	MGIKOLOADU	LAIERYLKDQ	QLLGIWGCSG	KLICTTAVPW
96BW15B03	VT.TO,TMHOOA	MGIKOLONDU	LALERYLRDQ	QLLGIWGCSG	KLICTTNVPW
96BW16 26	VT.TO.T.THOOA	MGIKOLOTOX	LAIERYLKDQ	QLLGIWGCSG	KLICTTTVPW
96BW17A09	VT.TO,IMHOOA	MGIKOTOVDA	LAIERYLKDQ	QLLGIWGCSG	KLICTTAVPW
96BWMO1 5	ACCHMICULT	MGIKOLOTEN	LALERYLKGQ	QLLGIWGCSG	KLICTTSVPW
96BWM03_2	ACCHMINGT.TV	MGIKOTONDA	LAVERYLRDQ	QLLGIWGCSG	KLICTTAVPW
98BWMC12 2	VT.TO,TMHOOA	MGIKOLOADW	LAIERYLKDQ	QLLGVWGCSG	RLICTTAVPW
98BWMC13 4	VT.TO,IMHOOA	WGIKOLOTDV	LAIERYLKDQ	OFFICE	KLICTTNVPW
98BWMC14 a	VT.TO.T.THOOA	MGTKOTOTOV	LAIERYLKDQ	QLLGIWGCSG	KLICTTAVPW
98BWM014 1	VT.TO,TMHOOA	MGIKOTON DA	LAIERYLKDQ LAIERYLKDQ	QLLSLWGCSG	RLICTTNVPW
98BWM018 d	VT.TO.IMHOOA	MGIKOTOVDA MGIKOTOVDA	LALERYLRDQ	QLLGIWGCSG	KLICTTAVPW
98BWM036 a	VT.TO.IMHOOA	MGIKOTOTEM	LAIERYLKDQ	OFFGIMGCSG	KLICTTNVPW
98BWM037_d	AOOHLLOLTV	WGTKOLOADV	LAMERYLKDQ	OFFGIMGCSG	KLICTTAVPW
99BW3932 1	AOOHLLOLTV	WGIKOLOTPV	LAIERYLKDQ	OTTGTWGCSG	KLICTTAVPW
99BW4642_4	AOOHMLOLTV	MCIKOLOADA	LAIERYLKDQ	OF PRIMAGES	KLICTTAVPW
99BW4745 8	AOOHMIOTATV	WGTKOLOTEV	LAIERYLKDQ	OF F CLINGCRG	KLICTTAVPW
99BW4754_7	VT.TO.IMHOOA	MGIKOTOTOM	LAIERYLKDQ	QLLGIWGCSG	KIICTTAVPW
99BWMC16_8	AOOHMLOLTV	WGTKOT.OTDV	THIERITADO	QLLGIWGCSG	KLICTTAVPW
A2_CD_97CD	VT.19.1MOOOA	MCIKOLONDA	LAIERYLKDQ	OPPGTMGASG	KLICTTTVPW
A2_CY_94CY	AOOHLI KT.TV	MCIKUT UNDAN	LALERYLODO	OF TOTAL	KLICATDVRW
A2D 97KR	AOOHMT.PT.mv	MCIKOTONDA	LAVERYLKDQ	OTT GIMGCSG	KLICATTVPW
A2G_CD_97C	AOOHT, T.KT.TV	MGTKOTONDA	LAVERYLODO	QLLGIWGCSG	KLICTTFVPW
A_BY_97BL0	AOOXI,I,KI,my	MGTKOL ONDA	LALERYLODO	OTT DEFENSES	KLICTTIVPW
A_KE_Q23_A	AOOHI T.K.T.M.	MGTKOTOSPIL	LAVERYLEDO	QXLRIXGCSX	KLICTTNVPX
A SE SE659	AOOHT T. KT. TO	MGIKOLOYDI	LAVERYLEDO	QLLGIWGCSG	KLICTTNVPW
A_SE_SE725	YOUHI'I'KI'WA	MCTROLOBBIL	LAVERYLKDQ	QLLGIWGCSG	KLICTTNVPW
	AUCHTTRAMA	MGIKOLOZOZ	LAVERYLKDQ	QLLGIWGCSG	KLICTTNVPW
A_SE_SE753	- AZMINICHT A	"GTVÕTÕVKA	THAREKITYDÖ	QLLGIWGCSG	KLICTTTVPW

A_SE_SE853	AQQHLLKLTV	WGIKQLQARV	LAVERYLKDQ	QLLGIWGCSG	KLICTTNVPW
A_SE_SE889	TANK TANK TO I A	MGTVOTOWOA	TAARKALIBDU	OLLGTWOOD	TET TOMORRES
A_SE_UGSE8	MANUAL VIOLEN	MGIVOTOWKA	MAVERYTIKDO	$-\Omega T.T.G.TMCCCCC$	TET TOMBON TONGS
A_UG_92UG0	vaaruni(mt a	MGTVOTOWKA	LAVERYTIEDO	OTTGTWGGGG	TO TODOWS TOTAL
A_UG_U455_	TA STATISTANT A	MGTVÕTÕVKA	LAVERYLODO	OTITICTWOOD	TOT TOTALISM TOTAL
AC_IN_2130	vestimate A	MGTVÕTÕVKA	LAVERYLKDO	OLLGTWGGGG	TO TOTAL TOTAL
AC_RW_92RW	TAX TITLE V	MGTYOTOWKA	PATEKALBDU	OLLCTMCCCC	WY TOTAL
AC_SE_SE94	AQQHLLKLTV	WGIKQLOARI	LAVERYLKDQ	OLTGINGCEG	KTICIINVPW
ACD_SE_SE8	AQQHLLKLTV	WGIKOLOARV	LAVERYLKDQ	OLLGINGCSG	KTICLINADA
ACG BE VI1	AQQHMLQLTV	WGIKOLOTRV	LAIERYLQVQ	OLIGIWGCSG	KLICATNVPW
AD SE SE69	AQQHLLKLTV	MCIKOLOARV	LAVERYLKDQ	OTTGTWGCSG	KLICTTSVPW
AD SE SE71	AOOHLLKLTV	WGTKOLOARV	LALERYLKDQ	OTTGINGCSG	KLICTTNVPW
ADHK NO 97	AOOHMLOLTV	WGTKOLONDY	OTHER TRACES	QLLGIWGCSG	KLICPTTVPW
ADK CD MAL	AOOHTTOTT	WCIKOLOARY	LAVERYLKDQ	<b>GTTGTMGG2G</b>	KLICTTNVPW
AG_BE_VI11	AUCHMIOTATION	MCIKOLONDA	LAVERYLODO	RLLGMWGCSG	KHICTTFVPW
AG NG 92NG	ACCHITACTAN	MGIKOTOPE	LAVERFLKDQ	QLLGIWGCSG	KLICTTNVPW
AGHU GA VI	VOURT OF MA	WGIKQLQARV	LAVERYLKDQ	QLLGIWGCSG	KLICTTNVPW
AGU_CD_Z32	MÖÖTTI V	MGTVÖTÖVKA	LAIERYLKDO	OTJUSTWEEGE	KT.TOMMSTORT
	MOOTH I DI CAL	WGIKQLQARI	LAVERYLKDQ	QLLGIWGCSG	KIICPTNVPW
AJ_BW_BW21	<b>VOOUTHERT!</b>	MGIKOLOAKI	LAVERYTODO	OLLGIMOCOCO	TATE T CHEMOTER TO
B_AU_VH_AF	₩ÃÕIMIÕDĪ A	MGIKOTOWKI	LAVERYTIEDO	$\Delta T.T.C.T.D.C.C.C.C.$	TET TOWNSON
B_CN_RL42_	MAGNITUD OUT A	MGTVÕTÕVKA	LAVERYLKDO	OTITICTWACCEA	VT. TOMMATORY
B_DE_D31_U	PASSIMPSHIA A	MGTVÕTÕVKA	LAVERYLEDO	OTITICALMACCEC	WT. TOMMA TOOLS
B_DE_HAN_U	YŐŐUTPŐPI A	WGIKOLOARV	LAVERYTIEDO	OLIGINGCOCC	VI I COMPONIES
B_FR_HXB2_	₩ÃÙDDÕDÍ A	MGTYOTOWKI	LAVERYTIKNO	OI.I.CIMCCCC	VI I COMPANIE
B_GA_OYI	TO CITTING IT A	MGTVÖTÖVKA	LAVERYLKDO	OLIGINGCEC	WT TOTTOTTOTT
B_GB_CAM1_	MAGNITION A	MGTKOTOWKA	LAVERYLKDO	OTTGTWGCCG	VI I COMMATTEL
B_GB_GB8_C	ひんろいいりんけい ヘ	MGTKOTOWKA	LAVERYLKDO	OLLGIMOGGG	TOT TOTAL
B_GB_MANC_	₩ÔĞUTUNĞUT A	MGTKOTOWKA	LAVERYTODO	OLLGIMCOCC	TAT TOMORA TIME
B_KR_WK_AF	AQQHLLQLTV	WGIKOLOARV	LAVERYLRDQ	OLLGIWCCSG	KPICLIAAAA
B_NL_3202A	AQQHLLQLTV	WGIKOLOARV	LAVERYLKDQ	OTTGTWGCSG	KLICTINVPW
B_TW_TWCYS	AQQHMLOLTV	WGIKOLOARV	LAVERYLEDQ	OLIGINGUSG	KLICTTAVPW
B_US_BC_LO	AOOHLLOLTV	WGTKOLOADV	LAVERYLKDQ	QLLGIWGCSG	KLICNINVPW
B US DH123	AOOHMLOUTV	WGTKOLOADU	LAVERYLODO	QLLGIWGCSG	KLICTTAVPW
B_US_JRCSF	AOOHMLOLTV	WGTKOT.OADW	TWATTIODO	OPPGIMGC2G	KLICTTTVPW
B US MNCG	VIT.TO, IMHOOA	MCIKOTOYDA	LAVERYLKDQ	QTWGTMGC2G	KLICTTAVPW
B US P896	VT-TO-IMHOOA	MCIKOTOYDA	LAVERYLKDQ	QLLGFWGCSG	KLICTTTVPW
B_US_RF_M1	AUCHTITOTIANO V	MGIKOI OADII	LALERYLRDQ	QLMGIWGCSG	KLICTTSVPW
B US SF2 K	A THÖTTTÖĞEL	WGIKQLQARV	LAVERYLRDQ	QLLGIWGCSG	KLICTTTVPW
B_US_WEAU1	MOORITEEL WAS	WGIKQLQARV	LAVERYLRDQ	QLLGIWGCSG	KLICTTAVPW
B_US_WR27	wastime ent a	MGTYOTOWKA	TAAKKAITKUU	OLLGINGCOCC	TO TORRIGHT THE
B_US_YU2 M	₩ÃŎ™MÕDI¥	MGTKOTOWKA	LAVERYLEDO	OLLGTMCCCC	VI I ORDINATION
B_US_1U2_M BF1 BR 93B	YZZTTTŽTI V	MGTKOTOWKA	PAARKALBDU	OTTGTTMCCCC	TET TOMBUTTORS
	võõmnõnt∧	MGTKOTOWKI	LAVERYLKDO	OLIGIWGCSG	KT.TOmmount
C_BR_92BR0	₩ÃŎĬĬĬĮĬĀŢĬ A	MGTVÕPÕIKA	LAIERYLRDO	OLLGTMCCCC	TO TOTAL A STATE
C_BW_96BW0	<b>₩</b> ŐĞŒMŢŨŢŢ.Λ	MGTKÖTÖLKA	LAIERYLKDO	OLLGTMGCGG	KT. T CHURTHATATA
C_BW_96BW1	<b>MOOTHINGTIA</b>	WGIKQLQTRV	LAIERYLKDO	OLLGIMGCGG	WI TOMMATION
C_BW_96BW1	wôōmmôn I.A	WGIKQLOARV	LALERYTIRDO	OLLGTWOOGG	WI TOMMSTON
C_BW_96BW1	WASTINIDED I A	MGTVOTOWKA	TWIEKALKDU -	OLLGTWCCCC	TO TORREST TOTAL
C_ET_ETH22	PASTINITATION A	MGTVOTOLKA	TATERHIBDO	OT.T.GTWGCGG	TO TOMORY TORY
C_IN_93IN1	MAGITINATION A	MGTVOTOTKA	TATERATIKDO	OLLGTWOOD	IZT TOMMATORS
C_IN_93IN9	MAGITHING I I A	MGTYOTOTKA	TATERALIKDU	OLLGINGGEC	I/T TOMBRITARS
C_IN_93IN9	MAKITITATI A	MGTVOTOTKA	TATERATIKDO	OI.I.GTWGCGC	VI TOMOSTON
C_IN_94IN1	TAKITHI OH I A	MGTVOTOTKA	TATERATIKDO	OLLGIMAGGGG	WT TOMMATERIA
C_IN_95IN2	TO STATE OF THE	MGTVÕTÕLKA	TATERATEDO	.OT.T.GTWGCgG	TT TOMMATION
CRF01_AE_C	VÄÄIIINÄHI A	MGTVOTOWKA	LAVERYTIKDO	KRLGLMGCCC	ICT TOURS TOUR
CRF01_AE_C	VÕÕUDDÕDI A	MGTKOTOWKA	LAVERYTATIO	KTLCLWCCCC	VTTORROTTE:
CRF01_AE_C	AQQHLLQLTV	WGIKOLOARV	LAVERYLKDQ	OPT.CT.MCC2C	VIICLIZA
CRF01_AE_T	AQQHLLOLTV	MGIKULUDBA	LAVERYLKDQ	KET OT MOCCE	VIICLIZADA
CRF01 AE T	AOOHLLOLTV	MGTKOT.ONDW		VL PGTMGGZ	KIICTTAVPW
CRF01_AE_T	AOOHLLOLTV	MGIKUI'VADA	LAVERYLKDQ	VETIGEMGCSG	KIICTTAVPW
CRF01_AE_T	AOOHMT.OT.mvz	MGIKOTONDIA	LAVERYLKDQ	KT.TGTMGC2G	KIICTTAVPN
CRF01_AE_T	AUCHT-T-CT-TW	MGIKOLOND	LAVERYLKDQ	Kr.rgraggegg	KIICTTAVPW
<u>-</u>	××	"GTVÕTÕWKA	LAVERYLKDQ	KFLGLWGCSG	KIICTTAVPW

CRF01_AE_T AQOHLLCLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTY CRF02_AG_F AQOHLLKLTV WGIKQLQARV LALERYLRDQ QLLGIWGCSG KLICTTY CRF02_AG_B AQOHLLKLTV WGIKQLQARV LALERYLRDQ QLLGIWGCSG KLICTTY CRF02_AG_S AQOHLLKLTV WGIKQLQARV LALERYLRDQ QLLGIWGCSG KLICTTY CRF02_AG_S AQOHLLKLTV WGIKQLQARV LALERYLRDQ QLLGIWGCSG KLICTTY CRF02_AG_S AQOHLLKLTV WGIKQLQARV LALERYLRDQ QLLGIWGCSG KLICTTY CRF03_AB_R AQOHLLQLTV WGIKQLQARV LALERYLRDQ QLLGIWGCSG KLICTTY CRF04_cpx_ AQQHLLQLTV WGIKQLQARV LALERYLKDQ QLLGIWGCSG KLICTTY CRF04_cpx_ AQQHLLQLTV WGIKQLQARV LALERYLKDQ QLLGIWGCSG KLICTTY CRF04_cpx_ AQQHLLQLTV WGIKQLQARV LALESYLRDQ QLLGIWGCSG KLICTTY CRF05_DF_B AQQHLLQLTV WGIKQLQARV LALESYLRDQ QLLGIWGCSG KLICTTY CRF06_cpx_ AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTY CRF06_cpx_ AQQHLLQLTV WGIKQLQA	ODEA1 35 -	<b>-</b>				
CRF02_AG_F CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF02_AG_M CRF04_CPX AQQHLLKLTV WGIKQLQARV LALESYLKDQ QLLGIWGCSG KLICTTM WGIKQLQARV LALESYLKDQ QLLGIWGCSG KLICTTM WGIKQLQARV LALESYLKDQ QLLGIWGCSG KLICTTM WGIKQLQARV LALESYLKDQ QLLGIWGCSG KLICTTM WGIKQLQARV LAVERYLKDQ QLLGI	CRF01_AE_T	AQQHLLQLT	/ WGIKQLQARY	J LAVERYLKD	2 KFLGLWGCS	3 KTVCTTAVDW
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D_CD_NDK_M D_UG_94UG1 D_UG_94UG1 D_UG_94UG1 F1_BE_V185 AQQHLLQLTV WGIKQLQARV F1_BR_93BR F1_F1_F1M9 AQQHLLQLTV WGIKQLQARV F1_F2_CM_MP25 AQQHLLQLTV WGIKQLQARV G_BE_DRCBL G_NG_92NG0 G_SE_SE616 AQQHLLQLTV WGIKQLQARV H_BE_V1991 H_BE_V1991 AQQHMLQLTV WGIKQLQARV H_BE_V1991 AQQHMLQLTV WGIKQLQARV H_BE_V1991 AQQHMLQLTV WGIKQLQARV H_BE_V1997 AQQHMLQLTV WGIKQLQARV H_BE_V1997 AQQHMLQLTV WGIKQLQARV H_BE_V1997 AQQHMLQLTV WGIKQLQARV H_CF_90CF0 J_SE_SE702 J_SE_SE702 J_SE_SE788 K_CD_EQTB1 K_CM_MP535 N_CM_YBF30 O_CM_ANT70 O_CM_MYP51 O_SN_99SE AQQQLLRLSV WGIRQLRARL LAVERYLKDQ QLLGIWGCSG KLICTTNV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QL	D_CD_84ZRO	AQQHLLQLTV	WGIKOLOART	LAVEDVIKDO	OT L CIMCOSC	KTICLLMADM
D_UG_94UG1 AQQHLLQLTV WGIKQLQARI LAVERYLKDQ QLLGIWGCSG KHICTTN F1_BE_V185 F1_BR_93BR AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTN F1_F1_F1M9 AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTN F1_FR_MP41 AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTN F2_CM_MP25 AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTN G_BE_DRCBL AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTN G_BE_DRCBL AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTN G_SE_SE616 AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTN G_SE_SE616 AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTN H_BE_V1991 AQQHMLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTN H_BE_V1997 AQQHMLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTN H_CF_90CF0 J_SE_SE702 AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTN AQQHLLKLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGI	D_CD_ELI_K	AQQHLLQLTV	WGIKOLOART	TWEEKI TWO	OTTGTWGCSG	KHICTTTVPW
F1_BE_V185 AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNY F1_F1_F1N9 AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNY F1_FR_MP41 AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNY F2_CM_MP25 AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNY G_BE_DRCBL AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNY G_BE_DRCBL AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNY G_SE_SE616 AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNY AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNY AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNY AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNY AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNY AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNY AQQHLLKLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNY AQQHLLKLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNY AQQQLLKLXV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNY AQQQLLLKLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNY AQQQLLCTV WGIKQLQARV LAVERYLCDQ QLLGIWGCSG KLICTTNY AQQQLLCTV WGIKQLQARV LAVERYLCDQ QLLGIWGCSG KLICTTNY AQQQLLCTV WGIKQLQARV LAVERYL	D_CD_NDK_M	AQQHLLQLTV	WGIKOLOARV	TWARKITIKIO	OFFGIMGGSG	KHICTTNVPW
F1_BR_93BR AQQHLLQLTV WGIKQLQARV F1_F1_F1W9 F1_FR_MP41 AQQHLLQLTV WGIKQLQARV F2_CM_MP25 AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLLXTV WGIKQLQARV AQQHLLKLTV WGIKQLQARV AQQHLLKLTV WGIKQLQARV AQQHLLKLTV WGIKQLQARV AQQHLLKLTV WGIKQLQARV AQQHLLKLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCGG KLICTTNV AQQQLLRLSV WGIRQLRARL LAVERYLKDQ QLLGIWGCGG KLICTTNV AQQQLLRLSV WGIRQLRARL LALETLLQNQ QLLDNLWGCKG KLICYTSV AQQQLLRLSV WGIRQLRARL LALETLLQNQ QLLDNLWGCKG KLICYTSV AQQQLLRLSV WGIRQLRARL LALETLLQNQ QLLDNLWGCKG KLICYTSV AQQQLLRLSV WGIRQLRARL LALETLLQNQ QLLDNLWGCKG KLICYTSV	D_UG_94UG1	AQQHLLQLTV	WGIKOLOART	TYARKITIKDO	OTTGIWGCSG	RHICTTNVPW
F1_FI_FIN9 AQQHMLQLTV F1_FR_MP41 AQQHLLQLTV F2_CM_MP25 AQQHLLQLTV AQQHLLQLTV G_BE_DRCBL G_NG_92NG0 G_SE_SE616 H_BE_VI991 AQQHMLQLTV H_BE_VI997 AQQHMLQLTV AQQHMLQLTV WGIKQLQARV H_CF_90CF0 J_SE_SE702 AQQHLLKLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTN WGIKQLQARV LALERYLKDQ QLLGIWGCSG KLICTTN LAVERYLKDQ QLLGIWGCSG KLICTTN WGIKQLQARV LALERYLKDQ QLLGIWGCSG KLICTTN WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTN WGI	F1_BE_VI85	AQQHLLOLTV	WGTKOLOARV	TWARBITINDO	OTTGINGCSG	KHICTTNVPW
F1_FI_FIN9 AQQHMLQLTV WGIKQLQARV F1_FR_MP41 AQQHLLQLTV WGIKQLQARV F2_CM_MP25 AQQHLLQLTV WGIKQLQARV F2_KU_BE_VI AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHLLQLTV WGIKQLQARV AQQHMLQLTV WGIKQLQARV AQQHMLQLTV WGIKQLQARV AQQHMLQLTV WGIKQLQARV AQQHMLQLTV WGIKQLQARV AQQHMLQLTV WGIKQLQARV AQQHLLKLTV WGIKQLQARV AQQHLLQLTV WGIKQLARY AQQHLLQLTV WGIKQLARY AQQHLLQLTV WGIKQLARY AQQHLLQLTV WGIKQLARY AQQHLLQLTV WGIKQLARY AQQHLLQLTV WGIKQLARY AQQHLLQLTV WGIKQLARY AQQHLLQLTV WGIKQLARY AQQHLLQLTV WGIKQLARY AQQHLLQLTV WGIKQLARY AQQHLLQLSI WGIKQLARY AQQHLLQLSI WGIKQLARY AQQHLLQLSI WGIKQLARY AQQHLLQLSI WGIKQLARY AQQHLLQLSI WGIKQLARY AQQHLLQLSI WGIKQLARY AQQHLLRLSV WGIRQLRARL AVERYLKDQ QLLGIWGCSG KLICTTNV AQQQLLRLSV WGIKQLRAY AQQHLLQLSI WGIKQLGK KLICTTNV AQQQLLRLSV WGIRQLRARL AVERYLKDQ QLLGIWGCSG KLICTTNV AVERYLKDQ QLLGIWGCSG KLICTTNV AXIONIAN AVERYLKDQ QLLGIWGCSG KLICTTNV AQQULLRLSV WGIKQLRAY AQQULLRLSV WGIRQLRAY AQQULRCSV KLICTTN	F1_BR_93BR	AQQHLLOLTV	MGTKOTOARW	TWARKITYDÖ	OTTGTMGC2G	KLICTTNVPW
F2_CM_MP25 F2_KU_BE_VI AQQHLLQLTV WGIKQLQARI LAVERYLKDQ QLLGIWGCSG KLICTTM G_BE_DRCBL AQQHLLQLTV WGIKQLQARV LAIERYLKDQ QLLGIWGCSG KLICTTM G_NG_92NG0 AQQHLLQLTV WGIKQLQARV LAIERYLKDQ QLLGIWGCSG KLICTTM G_SE_SE616 AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTM H_BE_VI991 AQQHMLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTM H_CF_90CF0 AQQHMLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTM H_CF_90CF0 AQQHLLKLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTM AQQHLLKLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTM K_CD_EQTB1 K_CM_MP535 AQQHLLKLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTM K_CM_MP535 AQQHLLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTM AQQQLLKLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTM AQQQLLRLSV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM AQQQLLRLSV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTM AQQQLLRLSV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTM AQQQLLRLSV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTM AQQQLLRLSV WGIRQLRARL LAVERYLKDQ QLLGIWGCSG KLICTTM AQQQLLRLSV WGIRQLRARL LAVERYLKDQ QLLGIWGCSG KLICTTM AQQQLLRLSV WGIRQLRARL LAVERYLKDQ QLLGIWGCSG KLICTTM AQQQLLRLSV WGIRQLRARL LAVERYLKDQ QLLGIWGCSG KLICTTM AQQQLLRLSV WGIRQLRARL LAVERYLKDQ QLLGIWGCSG KLICTTM AQQQLLRLSV WGIRQLRARL LAVERYLKDQ QLLGIWGCSG KLICTTM AQQQLLRLSV WGIRQLRARL LAVERYLKDQ QLLGIWGCSG KLICTTM AQQQLLRLSV WGIRQLRARL LAVERYLKDQ QLLGIWGCSG KLICTTM AQQQLLRLSV WGIRQLRARL LAVERYLKDQ QLLGIWGCSG KLICTTM AQQQLLRLSV WGIRQLRARL LAVERYLKDQ QLLGIWGCSG KLICTTM AQQQLLRLSV WGIRQLRARL LAVERYLKDQ QLLSLWGCKG KLICTTM AQQQLLRLSV WGIRQLRARL LAVERYLKDQ QLLSLWGCKG KLICTTM AQQQLLRLSV WGIRQLRARL LAVERYLRDQ QLLSLWGCKG KLICTTM	F1_FI_FIN9	AQQHMLOLTV	WGIKOLOARV	PYARKITADO	OT T GT MGCSG	KLICTINVPW
F2KU BE VI  G BE DRCBL G NG 92NG0 G SE SE616 H BE V1991 H CF 90CF0 J SE SE702 J SE SE788 K CD EQTB1 K CM MP535 N CM YBF30 O CM ANT70 O CM ANT70 O CM ANT70 O CM ANT70 O CM MVP51 O SN 99SE O SN 99SE  AQQULLRLSV WGIKQLQARI AQQULLRLSV WGIRQLRARI AQQULRLSV WGIRQLRARI AQQULRLSV WGIRQLRARI AQQULRSV WGIRQLRARI AALERYLKDQ QLLGIWGCSG KLICTTNV AQQULRSV WGIRQLRARI AALERYLRDQ QLLGIWGCSG KLICTTNV AQQULRSV WGIRQLRARI AALERYLKDQ QLLGIWGCSG KLICTTNV AQQULRSV WGIRQLRARI AALERYLKDQ QLLGIWGCSG KLICTTNV AQQULRSV LAVERYLKDQ QLLGIWGCSG KLICTTNV AQQULRSV WGIRQLRARI AALERYLKDQ QLLGIWGCSG KLICTTNV AQQULRSV LAVERYLKDQ QLLGIWGCSG KLICTTNV AQQULRSV WGIRQLRARI AALERYLKDQ QLLGIWGCSG KLICTTNV AQQULRSV WGIRQLRARI AALERYLKDQ QLLGIWGCSG KLICTTNV AQQULRSV LAVERYLKDQ QLLGIWGCSG	F1_FR_MP41	AQQHLLOLTV	WGTKOLOAPV	TWARKITIVDO	OTT GTMGC2G	KLICTTNVPW
F2KU_BE_VI G_BE_DRCBL G_NG_92NG0 G_SE_SE616 AQQHLLQLTV WGIKQLQARV H_BE_VI991 AQQHLLQLTV WGIKQLQARV H_BE_VI997 AQQHMLQLTV WGIKQLQARV H_BE_VI997 AQQHMLQLTV WGIKQLQARV H_CF_90CF0 J_SE_SE702 J_SE_SE702 AQQHLLKLTV WGIKQLQARV K_CD_EQTB1 K_CM_MP535 AQQHLLKLTV WGIKQLQARV AQQHLLKLTV WGIKQLQARV AQQHLLKLTV WGIKQLQARV AQQHLLKLTV WGIKQLQARV AQQHLLKLTV WGIKQLQARV AQQHLLKLTV WGIKQLQARV AQQHLLKLTV WGIKQLQARV AQQHLLKLTV WGIKQLQARV AQQHLLKLTV WGIKQLQARV AQQHLLKLTV WGIKQLQARV AQQHLLKLTV WGIKQLQARV AQQHLLKLTV WGIKQLQARV AQQHLLKLTV WGIKQLQARV AQQHLLQLTV WGIKQLRARV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLQLTV WGIKQLRARV AQQHLLCTTNV AQQHLLQLTV WGIKQLRARV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLLCTTNV AQQHLCTTNV AQQHLCTNV AQQHLCTTNV AQQHCTNV AQQHLCTNV AQQHCTNV F2_CM_MP25	AQQHLLOLTV	WGTKOLOART	TYANDAI KDO	OPPGTMGC2G	KLICTINVPW	
G_BE_DRCBL G_NG_92NG0 G_SE_SE616 AQQHLLQLTV WGIKQLQSRV H_BE_VI991 AQQHMLQLTV WGIKQLQARV H_BE_VI997 AQQHMLQLTV WGIKQLQARV H_CF_90CF0 J_SE_SE702 AQQHLLKLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTN WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTN AQQHMLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTN AQQHLLKLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTN AQQMLQLTV WGIKQLRARV LAVERYLKDQ QLLGIWGCSG KLICTTN AQQHLLQLTV WGIKQLRARV LAVERYLKDQ QLLGIWGCSG KLICTTN AQQHLLRLSV WGIRQLRARI LAVERYLKDQ QLLGIWGCSG KLICTTN AQQHLLRLSV WGIRQLRARI LAVERYLKDQ QLLGIWGCSG KLICTTN AQQHLLRLSV WGIRQLRARI LAVERYLKDQ QLLGIWGCSG KLICTTN AQQHLLRLSV WGIRQLRARI LAVERYLKDQ QLLGIWGCSG KLICTTN AQQHLLRLSV WGIRQLRARI LAVERYLKDQ QLLGIWGCSG KLICTTN AQQHLLRLSV WGIRQLRARI LAVERYLKDQ QLLGIWGCSG KLICTTN AQQHLLRLSV WGIRQLRARI LAVERYLKDQ QLLGIWGCSG KLICTTN AQQHLLRLSV WGIRQLRARI LAVERYLKDQ QLLGIWGCSG KLICTTN AQQHLLRLSV WGIRQLRARI LAVERYLKDQ QLLGIWGCSG KLICTTN AQQHLLRLSV WGIRQLRARI LAVERYLKDQ QLLGIWGCSG KLICTTN AQQHLLRLSV WGIRQLRARI LAVERYLKDQ QLLGIWGCSG KLICTTN AQQHLLRLSV WGIRQLRARI LAVERYLKDQ QLLGIWGCSG KLICTTN AQQHLLRLSV WGIRQLRARI AQQHLLRLSV WGIRQLRARI AQQHLLRLSV WGIRQLRARI AQQHLLRLSV WGIRQLRARI AAVERYLKDQ QLLGIWGCSG KLICTTN AQQHLLRLSV WGIRQLRARI AAVERYLKDQ QLLGIWGCSG KLICTTN AQQHLLRLSV WGIRQLRARI AAVERYLKDQ QLLGIWGCSG KLICTTN AQQHLLRLSV WGIRQLRARI AAVERYLKDQ QLLGIWGCSG KLICTTN AQQHLLRLSV WGIRQLRARI AAVERYLKDQ QLLGIWGCSG KLICTTN AQQHLLRARI AAVERYLKDQ QLLGIWGCSG KLICTTN AQQHLRARI AAVERYLKDQ QLLGIWGCSG KLICTTN		AOOHLLOLTV	WGTKOLOADU	TAVERITION	OFFGIMGCSG	KLICPTTVPW
G_SE_SE616 AQQHLLQLTV WGIKQLQARL LAVERYLKDQ QLLGIWGCSG KLICTTNY H_BE_VI991 AQQHMLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNY H_CF_90CF0 ARQHMLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNY AQQHMLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNY AQQHLLKLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNY AQQHLLKLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNY AQQHLLKLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNY AQQHLLQLTV WGIKQLRARV LAVERYLKDQ QLLGIWGCSG KLICTTNY AQQHLLQLSV WGIRQLRARL LALETLLQNQ QLLSLWGCKG KLICYTTV AQQQLLRLSV WGIRQLRARL LALETLLQNQ QLLSLWGCKG KLICYTSV AQQQLLRLSV WGIRQLRARL LALETLIQNQ QLLNLWGCKG KLICYTSV AQQQLLRLSV WGIRQLRARL LALETLIQNQ QLLNLWGCKG KLICYTSV AQQQLLRLSV WGIRQLRARL LALETLIQNQ QLLNLWGCKG KLICYTSV		AOOHLLOLTV	WGTKOT.DADW	TATEKITKDŐ	OFFGIMGCSG	KLICTTNVPW
H BE V1991 AQQHMLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTM H BE V1997 H CF 90CF0 J SE SE702 J SE SE702 J SE SE708 K CD EQTB1 AQQMLLKLTV WGIKQLQARV K CM MP535 N CM YBF30 O CM ANT70 O CM ANT70 O CM MVP51 O SN 99SE O SN 99SE AQQQLLRLSV WGIRQLRARL LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTTM LAVERYLKDQ QLLGIWGCSG KLICTT	G_NG_92NG0	AOOHLLOLTV	WGTKOLOGDW	TWITERSTRING	QLLGIWGCSG	KLICTTNVPW
H BE V1997 AQQHMLQLTV WGVKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTM H CF 90CF0 J SE SE702 AQQHLLKLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTM J SE SE702 AQQHLLKLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTM K CD EQTB1 AQQMLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTMV AQQMLQLTV WGIKQLRARV LAVERYLKDQ QLLGIWGCSG KLICTTMV AQQMLQLTV WGIKQLRARV LAVERYLKDQ QLLGIWGCSG KLICTTMV AQQMLLQLTV WGIKQLRARI LAVERYLKDQ QLLGIWGCSG KLICTTMV AQQMLLQLTV WGIKQLRARI LAVERYLKDQ QLLGIWGCSG KLICTTMV AQQMLLQLTV WGIKQLRARI LAVERYLKDQ QLLGIWGCSG KLICTTMV AQQMLLRLSV WGIRQLRARL LALETLLQNQ QLLSLWGCSG KTICYTTV O SN 99SE AQQQLLRLSV WGIRQLRARL LALETLIQNQ QLLSLWGCKG KLICYTSV O SN 99SE AQQQLLRLSV WGIRQLRARL LALETLIQNQ QLLNLWGCKG KLICYTSV		AOOHLLOLTV	MCIKOTOVAL	TWITEKITKDÖ	Orrgimgcsg	KLICTTNVPW
H_CF_90CF0 J_SE_SE702 J_SE_SE702 J_SE_SE788 K_CD_EQTB1 K_CM_MP535 N_CM_YBF30 O_CM_ANT70 O_CM_MVP51 O_SN_99SE O_SN_99SE AQQQLLRLSV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNV GIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVERYLKDQ QLLGIWGCSG KLICTTNV LAVE		AOOHMLOLTV	WGTKOLOABU	THANKETTENDO	QLLGIWGCSG	KLICTTNVPW
J SE SE702 AQQHLLKLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNV K CD EQTB1 K CM MP535 AQQHLLKLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNV K CM MP535 AQQHLLQLTV WGIKQLRARV LAVERYLKDQ QLLGIWGCSG KLICTTNV AQQHLLQLTV WGIKQLRARI LAVERYLKDQ QLLGIWGCSG KLICTTNV AQQHLLQLSI WGIKQLRARI LAVERYLKDQ QLLGIWGCSG KLICTTNV AQQLLRLSX WGIRQLRARI LALETLLQNQ QLLSLWGCSG KTICYTTV AQQQLLRLSX WGIRQLRARL LALETLLQNQ QLLSLWGCKG KLICYTSV O SN 99SE AQQQLLRLSV WGIRQLRARL LALETLIQNQ QLLNLWGCKG KLICYTSV AQQQLLRLSV WGIRQLRARL LALETLIQNQ QLLNLWGCKG KLICYTSV		AOOHMLOLTV	MGAKUT'UY DAY	TWARKATKDO	QLLGIWGCSG	KLICTTNVPW
JSE SE788 AQQHLLKLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNV K CD EQTB1 AQQMLQLTV WGIKQLQARV LAVERYLKDQ QLLGIWGCSG KLICTTNV K CM MP535 AQQHLLQLTV WGIKQLRARI LAVERYLKDQ QLLGIWGCSG KLICTTNV O CM ANT70 AQQLLRLSX WGIKQLQAKV LAIERYLKDQ QLLGIWGCSG KLICTTNV O CM MVP51 AQQLLRLSX WGIRQLRARL LALETLLQNQ QLLSLWGCKG KLICYTSV O SN 99SE AQQQLLRLSV WGIRQLRARL LALETLIQNQ QLLNLWGCKG KLICYTSV O SN 99SE AQQQLLRLSV WGIRQLRARL LALETLIQNQ QLLNLWGCKG KLICYTSV		AROHMLOUTV	MG LKUTOWEAN	TAVEKATYDÖ	QLLGIWGCSG	KLICTTNVPW
K_CD_EQTB1 K_CM_MP535 N_CM_YBF30 O_CM_ANT70 O_CM_MVP51 O_SN_99SE O_SN_99SE AQQQLLRLSV WGIRQLRARI LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLGIWGCSG KLICTTNV LAVERYLRDQ QLLSLWGCSG KLICTTNV		AOOHT-T-KT-TV	MGIKOTOWAY	TAVEKITEDÖ	QLLGIWGCSG	KLICTTNVPW
K CD EQTB1 AQQQMLQLTV WGIKQLRARV LAVERYLRDQ QLLGIWGCSG KLICTTNV K CM MP535 AQQHLLQLTV WGIKQLRARI LAVERYLRDQ QLLGIWGCSG KLICTTNV O CM ANT70 AQQQLLRLSV WGIKQLQAKV LAIERYLRDQ QLLSLWGCSG KTICYTTV O CM MVP51 AQQQLLRLSV WGIRQLRARL LALETLLQNQ QLLSLWGCKG KLVCYTSV O SN 99SE AQQQLLRLSV WGIRQLRARL LALETLIQNQ QLLNLWGCKG KLICYTSV O SN 99SE AQQQLLRLSV WGIRQLRARL LALETLIQNQ QLLNLWGCKG KLICYTSV		AOOHIJIKITV	MGIKOLOADU	PAVEKATKDO	QLLGIWGCSG	KLICTTNVPW
N CM YBF30 AQQHLLQLSI WGIKQLQAKV LAIERYLRDQ QLLGIWGCSG KLICTTNV O CM ANT70 AQQQLLRLSX WGIRQLRARL LALETLLQNQ QLLSLWGCKG KLVCYTSV O SN 99SE AQQQLLRLSV WGIRQLRARL LALETLIQNQ QRLNLWGCKG KLICYTSV O SN 99SE AQQQLLRLSV WGIRQLRARL LALETLIQNQ QLLNLWGCKG KLICYTSV AQQQLLRLSV WGIRQLRARL LALETLIQNQ QLLNLWGCKG KLICYTSV		AOOOMLOLTV	MGTKOT.DXDtt	TWARKATKDO	QLLGIWGCSG	KLICTTNVPW
O_CM_ANT70 AQQQLLRLSX WGIRQLRARL LALETLLQNQ QLLSLWGCKG KLVCYTSV O_CM_MVP51 AQQHLLRLSV WGIRQLRARL QALETLIQNQ QRLNLWGCKG KLICYTSV O_SN_99SE AQQQLLRLSV WGIRQLRARL LALETLIQNQ QLLNLWGCKG KLICYTSV O_SN_99SE AQQQLLRLSV WGIRQLRARL LALETLIQNQ QLLNLWGCKG KLICYTSV		ACCHILICITY	MGIKOLDADI	LAVERYLRDQ	QLLGIWGCSG	KLICTTNVPW
O_CM_MVP51 AQQHLLRLSV WGIRQLRARL QALETLLQNQ QLLSLWGCKG KLVCYTSV O_SN_99SE AQQQLLRLSV WGIRQLRARL LALETLLQNQ QLLNLWGCKG KLICYTSV O_SN_99SE AQQQLLRLSV WGIRQLRARL LALETLLQNQ QLLNLWGCKG KLICYTSV		ACOHILIOLST	MGIKOLOVAL	TAVERATEDO	QLLGIWGCSG	KLICTTNVPW
O_CM_MVP51 AQQHLLRLSV WGIRQLRARL QALETLLQNQ QLLSLWGCKG KLVCYTSV O_SN_99SE AQQQLLRLSV WGIRQLRARL LALETLLQNQ QLLNLWGCKG KLICYTSV O_SN_99SE AQQQLLRLSV WGIRQLRARL LALETLLQNQ QLLNLWGCKG KLICYTSV		ACCOLLEGE	MGTDOLDYD1	LAIERYLRDQ	QILSLWGCSG	KTICYTTVPW
O_SN_99SE AQQQLLRLSV WGIRQLRARL LALETLIQNQ QLLNLWGCKG KLICYTSV O_SN_99SE AQQQLLRLSV WGIRQLRARL LALETLIQNQ QLLNLWGCKG KLICYTSV			MOTIONICAL!	LALENCE LA CONTA	OT T OT DIGGER	
O_SN_99SE_ AQQQLLRLSV WGIROLRARL LALETLIONO OLLNLWGCKG KLICYTSV						
			"OTYOUKHK!	LIALLING TELL CONTO	OT TATE LICENSE	· · · · · · · · · · · · · · · · · · ·
- WGINGLOOK LAVERYLESQ QLLGLWGCSG KLICTTTV			MOTYCHIKAKII	1.A1.B"17.1.1.1.1887	OT TATE LICENSES	
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	701				750
00BW0762_1	NASWSN	KSEGDIWNN.	.MTWMQWDRE	TSMVTMTTVD	750 LLENSQIQQE
00BW0768 2	NSSWSN	KSQKEIWDN.	.MTWMOWDKE		LLEESQSQQE
00BW0874 2	NNSWSN		.MTWMQWDRE		LLEVSQNQQE
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00BW1616 2	NSSWST		.MTWMQWDRE	TUMVITATIN	LLEESQNQQE
00BW1686 8	NASWSN	KSOEDIWNN.	.MTWMPWDRE		LLEESQSQQE
00BW1759 3	NHSWSN	KSEEDIWNH.	.TTWMQWDRE		LLEDSQNQQE
00BW1773 2	NSSWSN	RSQDDIWEN.	.MTWMQWDKE		LLEKSQNQQE
00BW1783 5	NTSWSN		.MTWMQWDRE		LLEESQIQQE
00BW1795 6	NVSWSN		.MTWMQWDRE		LLEDSQNQQE
00BW1811 ³	NNSWSN		.MTWMEWDRE		LLEKSQNQQE
00BW1859 5	NSSWSN		.MTWMQWDRE		LLEDSQIQQE
00BW1880_2	NDSWSN		.MTWMQWDRE		LLENSQNQRE
00BW1921_1	NSSWSN		.MTWMQWDRE		LLEDSQNQRE
00BW2036_1		KSLADIWDN.	.MTWMQWDKE		LLEDSQNQQE
00BW2063_6	NASWSN	KSHDEIWEN.	.MTWMQWDRE		MLEDSQNQQE
00BW2087_2	NSSWSN		.MTWMQWDRE	ISNYTNTIYK	
00BW2127_2	NSSWSS		.LTWMQWDRE	IDNYTDTIYK	
00BW2128_3	NSSWSN		.MTWMQWDRE	ISNYTETIYR	
00BW2276_7	nsswsn		.MTWVOWDKE		LLEEWQNQQE
00BW3819_3	nsswsn		.MTWMQWDRE	VINYTGIIYG	
00BW3842_8	NSSWSN	KSLEDIWDN.	.MTWMQWDRE	ISNYTREIYK	
00BW3871_3	NLSWSN	KSQKDIWES.	. MTWMQWDNE		LLEDSQNRQE
00BW3876_9	NSSWSN	KSQSDIWEN.	.MTWMQWDRK		LLEESQTQQE
00BW3886_8	nsswsn	KTQEDIWNK.	. TTWMQWDKE	ISNYTDIIYS	LLADSONOCE
00BW3891_6	NASWSN		.MTWMQWDKE	VSNYTNTIYK	
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96BW01B21	NSSWSN	RSEADIWDS.	. MTWMQWDKE	ISNYTGTIYR	
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96BW0502	NSSWSN	RSHDEIWDN.	.MTWMQWDRE	INNYTDTIYR	LLEESONOOE
96BW06_J4	NSSWSN	KSLGDIWDN.	.MTWMQWDRE	ISNYTGTIYR	LLEDSONOOE
96BW11_06	NASWSN	KSQEEIWGN.	.MTWMQWDRE	ISNYTDTIYR	LLEVSONOOE
96BW1210	nsswsn	KTENEIWEN.	.MTWMQWERE	IDNYTDTIYR	LLEVSONOOE
96BW15B03		KTQGEIWEN.	.MTWMQWDKE	ISNYTGIIYR	
96BW16_26	NVSWSN	RSEDDIWNN.	.MTWMQWDRE	INNYTNTIYR	
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98BWMC12_2	NSSWSN		.MTWMEWDRE	INNYTDTIYW	LLEKSONOOE
98BWMC13_4	NASWSN		.MTWMQWDRE	INNYTDTIYR	LLEESQNQQE
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98BWM018_d	NSSWSN		.MTWMQWDRE	INNYTDIIYG	
98BWMO36_a	NSSWSN		.MTWMQWDRE	INNYTDTIYK	LLEESQNQQE
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99BW4754_7	NTSWSN		.MTWMQWDRE		
99BWMC16_8	NDSWSN		.MTWMQWDKE	INNYTSLIYT	
A2_CD_97CD	NSSWSN		.MTWLQWDKE	ISTYTDIIYM	
A2_CY_94CY	NTSWSN		.MTWLQWDKE	ISNYTNIIYR	
A2D97KR	NSSWSN		.MTWLQWERE	IDNYTGTIYR	
A2G_CD_97C	NSSWSN	KIQNEIWDN.	.MTWLQWDKE	INNYTDTIYK	LLEDSQNQQE
A_BY_97BL0 A_KE_Q23_A	XSSXSN	VYČERIXDN.	.MTMQDXE	TINXTDIIYD	LIXKSQNQQE
A_RE_Q23_A A SE SE659	NSSWSN		.MIWLQWDKE	INNYTQLIYR	LIEESQNQQE
A_SE_SE725	NTSWSN		.MIMTOMDKE	ISKYTGIIYD	LLEESQNQQE
A_SE_SE753	NSSWSN		. MINLOWDRE	ISNYTEIIYK	LIEESQNQQE
55_55755	MODROM	WOIDGIMDN.	· MIT MIT QWDKE	ISNYTEIIYQ	LIEKSQNQQE

A_SE_SE853	nsswsn	KSQSEIWDN.	.MTWLQWDKE	ISNYTOTIVE	LIERSQNQQE
A_SE_SE889	NSSWSD	VSQSEIWEN.	.MTWLQWDKE	ISNYTOLIYS	LIEESQNQQE
A_SE_UGSE8	NSTWSN		.MTWLQWDKE		LIEESQYQQE
A_UG_92UG0	nsswsn	KSLDEIWEN.	.MTWLQWDKE		LIEESQIQQE
A_UG_U455_	nsswsn	A.——	.MTWLQWEKE		LIEESQNQQE
AC_IN_2130	NASWSN	KSQKEIWEN.	.MTWLQWDKE		LIKESQNQQE
AC_RW_92RW	nsswsn	KTQQEIWDN.	.MTWQQWDKE		LIEESQNQQE
AC_SE_SE94	nsswsn		.MTWLEWDKE		LIEESQIQQE
ACD_SE_SE8	nsswsn	KSQAEIWQN.	.MTWLQWDKE		LLEEPQNQQE
ACG_BE_VI1	nsswsn	KSQGEIWDN.	.MTWMQWDRE		LLEESQNQQE
AD_SE_SE69	NSTWSN	KSQEEIWDN.	.MTWLQWDKE		LLAESQNQQE
AD_SE_SE71	nsswsn	KSWSEIWNN.	.MTWLQWDKE	INNYTHIIYO	LIEESQNQQE
ADHK_NO_97	nsswsn	KSLNDIWXN.	.MTWMEWDKQ	ISNYSEEIYR	LLEVSQIQQE
ADK_CD_MAL	nsswsn	RSLDDIWNN.	.MTWMQWEKE	ISNYTGIIYN	LIEESQIQQE
AG_BE_VI11	NVSWSN	KSYNDIWNN.	.MTWIEWERE		LLEESQNQQE
AG_NG_92NG	NTSWSN	KSYEEIWDN.	.MTWIQWERE		LIEESQNQQE
AGHU_GA_VI	nsswsn		.MTWMQWEKE	ISNYTNTIYW	LLEESQNQQE
AGU_CD_Z32	nsswsn	- 2	.MTWLEWDKE	VSNYTOVIYN	LLEESQTQQE
AJ_BW_BW21	nsswsn	KSYNEIWEN.	.MTWRDWERE	IDKYTDTIYS	LIGEAQSQQD
B_AU_VH_AF	NASWSN	KSLSDIWDN.	.MTWMQWERE	IGNYTGLIYH	LLEESQNQQE
B_CN_RL42_	NASWSN	KSLHEIWNN.	.MTWMEWERE	IDNYTREIYT	LIEESQNQQE
B_DE_D31_U	NASWSN	KSMDMIWNN.	.MTWMEWERE	IDNYTSLIYT	LIEESQNQQE
B_DE_HAN_U	NASWSN		.MTWMEWERE	IDNYTSLIYT	LIEQSQNQQE
B_FR_HXB2_	Naswsn	KSLEQIWNH.	.TTWMEWDRE	INNYTSLIHS	LIEESQNQQE
B_GA_OYI	Naswsn		.MTWMQWERE	IDNYTHLIYT	LIEESQNQQE
B_GB_CAM1_	Naswsn		.MTWMEWERE	IDNYTNLIYT	LIEESQNQQE
B_GB_GB8_C	Naswss		.TTWMEWERE	IDNYTNTTYT	LIEESQNQQE
B_GB_MANC_	nsswsn		.MTWMQWEKE	INNYTGLIYT	LIQESQNQQE
B_KR_WK_AF	NTSWSN	KSENEIWDN.	.MTWMEWDRE	INNYTNLIYD	LLEKSQNQQE
B_NL_3202A	Naswsn		.MTWMEWDRE	VSNYTSLIYT	
B_TW_TWCYS	NISWSN	KTYDEIWNN.	.MTWMQWERE	IDNYTDHIYN	LLEKSQNQQE
B_US_BC_L0	NASWSN		.MTWMQWERE	IENYTDLIYN	LIEESQNQQE
B_US_DH123	NTSWSN	KSLDTIWGN.	.MTWMQWEKE	INNYTGLIYN	LIEESQNQQE
B_US_JRCSF	NTSWSN	KSLDSIWNN.	.MTWMEWEKE	IENYTNTIYT	LIEESQIQQE
B_US_MNCG_	NASWSN	KSLDDIWNN.	.MTWMQWERE	IDNYTSLIYS	LLEKSQTQQE
B_US_P896_	nvswsn	KSVDDIWNN.	.MTWMEWERE	IDNYTDYIYD	LLEKSOTOOF
B_US_RF_M1	NASWSN	KSLNMIWNN.	.MTWMQWERE	IDNYTGIIYN	LLEESONOOE
B_US_SF2_K		KSLEDIWDN.	.MTWMQWERE	IDNYTNTIYT	LLEESONOOF
B_US_WEAU1	NASWSN	RSQDYIWNN.	.MTWMEWERE	INNYTGLIYN	LIEESONOOE
B_US_WR27_		KSLDKIWQN.	.MTWMEWERE	IDNYTELIYS	LLEOSONOOE
B_US_YU2_M	NTSWSN		.MTWMKWERE	IDNYTHIIYS	LIEOSONOOE
BF1_BR_93B	NSSWSN	KSQEKIWGN.	.MTWMEWEKE	ISNYSNEIYR	LIEESONOOE
C_BR_92BR0	NSSWSN	RSQEDIWNN.	.MTWMQWDRE	ISNYTNTIYR	LLEDSONOOE
C_BW_96BW0	NNSWSN	KSLDYIWGN.	.MTWMEWDRE	ISNYSNTIYR	LLEDSONOOE
C_BW_96BW1	NASWSN	KSQEEIWGN.	.MTWMQWDRE	ISNYTDTIYR	LLEVSONOOE
C_BW_96BW1	NSSWSN	KTENEIWEN.	.MTWMQWERE	IDNYTDTIYR	LLEVSONOOE
C_BW_96BW1	NSSWSN	KTQGEIWEN.	.MTWMQWDKE	ISNYTGIIYR	LLGESQNOOE
C_ET_ETH22	NSSWSN	KSQEEIWDN.	.MTWMQWDRE	ISNYTDIIYN	LLEVSONOOD
C_IN_93IN1	NSSWSN	KTQSEIWNN.	.MTWMQWDRE	VSNYTNIIYS	LLEESQNOOE
C_IN_93IN9	NSSWSN	RSQQDIWDN.	.MTWMQWDRE	ISNYTNTIYR	LLEDSQNQOE
C_IN_93IN9	NSSWSN	KSQIEIWEN.	.MTWMQWDRE	INNYTQTIYR	
C_IN_94IN1	NSSWSN	RTQEEIWNN.	.MTWMQWDRE	INNYTNTIYR	LLEDSONOOE
C_IN_95IN2	NSSWSN	RTQKEIWDN.	.MTWMQWDRE	INNYTNTIYR	
CRF01_AE_C	NTSWSN	KSYAEIWDN.	.MTWIEWDKE	INNYTNQIYE	
CRF01_AE_C	NSSWSN	KSYEAIWNN.	.MTWIEWDRE	INEYTNQIYE	
CRF01_AE_C	NSSWSN	KSYNEIWNN.	.MTWIEWDRE	INNYTNQIYE	LLTKSQDOOE
CRF01_AE_T	NSTWSN	RSFEBIWNN.	.MTWIEWERE	ISNYTNQIYE	ILTESONOOD
CRF01_AE_T	NSTWSN	RSYEEIWNN.	.MTWTEWERE	ISNYTNQIYE	ILTESQDQQD
CRF01_AE_T	.STWSN	RSYEEIWDN.	.MTWIEWERE	ISNYTNQIYE	ILTESONOOE
CRF01_AE_T	NSTWSN	KSFDEIWNN.	.MTWIEWERE	ISNYTNKIYD	ILTESONOOD
CRF01_AE_T	NSTWSN	RSFEEIWNN.	.MTWIEWERE	ISNYTNQIYE	ILTESONOOD
				-	

CRF01_AE_T	NSTWSN	KSYEEIWDK.	.MTWTQWERE	ISNYTSTIYE	ILTESONOOD
CRF02_AG_F	NSSWSN	KTYNDIWDN.		VSNYTDIIYN	
CRF02_AG_F	NASWSN	KTYNDIWDN.	.MTWLOWDKE		LIEESQNQQE
CRF02_AG_G	NSSWSN	RTFEDIWEN.	.MTWLQWEKE		LIEDSONOOE
CRF02_AG_N	NSSWSN	KTFNDIWDN.	.MTWIQWEKE		LIEESQNRQE
CRF02_AG_S	NSSWSN	KTYDHIWGN.	.MTWLQWDKE		LIEESQNQQE
CRF02_AG_S	NSSWSNN	KTFKDIWDN.	.MTWLQWDKE		LIEEAQNQQE
CRF03_AB_R	NTSWSN	KPLDEINN	.MTWMEWERE		LIEESQNQQE
CRF03_AB_R	NTSWSN	KSLDKIWNN.	.MTWMEWERE		LIEESQNQQE
CRF04_cpx_	NSSWSN	KSYNDIWDN.	.MTWLQWDKE		LLEESQNQQE
CRF04_cpx_	NSSWNN	KSYNDIWGN.	.MTWLQWDKE		LLEESQIQQE
CRF04_cpx_	NSSWSN	KSYEKIWDN.	.MTWLQWDKE		LLGEAQNQQE
CRF05_DF_B	NSSWSN	KSEGEIWDN.	.MTWMEWEKE		LIEQSQIQQE
CRF05_DF_B	NSSWSN	KSQEEIWEN.	.MTWMQWEKE		LIEQSQNQQE
CRF06_cpx_	NTSWSN	KTYDEIWGN.	.MTWIEWDRE		LIELSQTQQE
CRF06_cpx_	NASWSN	KTYNEIWDN.	.MTWIEWDRE		LIEESQNQQE
CRF06_cpx_	NASWSN	RTFNEIWNN.	.MTWIEWDRE		LIEESQSQQE
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CRF11_cpx_	NISWSN	KSYDEIWDN.	.MTWIEWERE		LLEESQTQQE
CRF11_cpx_	NVSWSN	KTYNEIWENE	NMTWIKWERE		LIEESQNQQE
D_CD_84ZR0	NSSWSN	RSVEYIWGN.	.MTWMQWERE		LIEESQIQQE
D_CD_ELI_K	nsswsn	RSLNEIWQN.	.MTWMEWERE		LIEESQTQQE
D_CD_NDK_M	nsswsn	RSLDEIWQN.	.MTWMEWERE		LIEESQIQQE
D_UG_94UG1	NSSWSN	RSVDEIWNN.	.MTWMEWERE		LLEVSQIQQE
F1_BE_VI85	NSSWSN	KSQEEIWNN.	.MTWMEWEKE		LIEESQNQQE
F1_BR_93BR	NSSWSN	KSLEEIWGN.	.MTWMEWEKE	VSNYSKEIYR	
F1_FI_FIN9	NSSWSN	KSQDEIWNN.	.MTWMQWEKE	ISNYŠKTIÝM	
F1_FR_MP41	NTSWSN	KSHDEIWNN.	.MTWMQWEKE		LIEESQNQQE
F2_CM_MP25	NLSWSN	KSQDEIWGN.	.MTWMEWEKE		LIESAQNQQE
F2KU_BE_VI	NSSWSN	RSQDEIWNN.	.MTWMEWENE		LIEQSONOOE
G_BE_DRCBL	NTSWSN	KSYNEIWEN.	.MTWIEWERE		LIEQSQIQQE
G_NG_92NG0	NTSWSN	KSYNEIWDN.	.MTWLEWERE	IHNYTQHIYS	
G_SE_SE616	NVSWSN	KSYNEIWDN.	.MTWIEWERE	INNYTYQIYS	
H_BE_VI991	nsswsn	KSLDEIWDN.	.MTWMEWDKQ	INNYTDEIYR	
<b>H_BE_VI997</b>	NSTWSN	KSLAEIWDN.	.MTWMEWDRO	IDNYTEVIYR	
H_CF_90CF0	NSSWSN	KSQSEIWDN.	. MTWMEWDKQ	ISNYTEEIYR	
J_SE_SE702	NASWSN	KSYEDIWEN.	.MTWIQWERE	INNYTGIIYS	
J_SE_SE788	NASWSN	KSYEDIWEN.	.MTWIQWERE	INNYTGIIYS	
K_CD_EQTB1	NSSWSN	KSQSEIWEN.	. MTWMQWEKE	ISNHTSTIYR	
K_CM_MP535	NSSWSN	KSWEEIWNN.	.MTWMEWEKE	IGNYSDTIYK	
N_CM_YBF30	NETWSNN	TSYDTIWNN.	. LTWQQWDEK	VRNYSGVIFG	
O_CM_ANT70	NRTWIG	NESIWDT.	.LTWQEWDRQ	ISNISSTIYE	
O_CM_MVP51	NTSWSGRYN.	DDSIWDN.	. LTWQQWDQH	INNVSSIIYD	
O_SN_99SE_	NTTWTNCTNT	NKLDDIWDK.	. LTWQQWDQQ	ISNVSSIIYE	
o_sn_99se_	NRTWTNNN	TDLDTIWGN.	.LTWQEWDQQ	ISNISATIYD	
U_CD83C	NSSWSN	KSLDNIWDN.	.LTWMEWDRE	ISNYTQVIYG	
				~	- ZZZ

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00BW0762 1	QNEKDLLALD	SWKNLWSWFD	TONIMI, WYTET	FIMIVGGLIG	800
00BW0768 2	RNERDLLALD	SWKNLWSWFD	TONNUM TIKE	FIMIVGGLIG	LRIIFAVLSI
00BW0874 2	KNEKDLLALD	SWKNLWSWFD	ISN.LWYIRI		
00BW1471 2	KNEOELLALD	SWENLWNWFS	ISRWLWYIKI		LRIVFAVLSL
00BW1616 2	KNEKDLLALD	SWNSLWNWFD	ITNWLWYIKI		LRIIFAVLSV
00BW1686 8	QNEKDLLALD	SWKNLWNWFN	ISNWLWYIKI		LRIIFAVLSI
00BW1759 3	INEKDLLALD	SWKNLWNWFD	ITKWLWYIKI		LRIIFAVLSI
00BW1773 2	KNEKDLLALD	SWKNLWNWFG	ITKWLWYIKI		LRIIFAVLSI
00BW1783 5	KNEKDLLALD	SWNNLWNWFT	ITNWLSYIKI		LRIIFAVLSI
00BW1795 6	KNEKDLLALD	SWKNLWNWFD	ITNWLWYIKI		LRIIFAVLSL
00BW1811 3	INEKDLLALD	SWKNLWSWFD	ISNWLWYIRI		LRIIFAVLSI
00BW1859 5	KNEKDLLALD	SWKNLWSWFD	ITNWLWYIRI		LRIIFAVLSI
00BW1880 2	QNEKNLLALD	SWKNLN.WFS	IT.HLWYIKI		LRIIFAVLSI
00BW1921 1	KNEKDLLALD	SWNNLWNWFS	ITKWLWYIKI		LRIVLVVLSV
00BW2036 1	QNEKDLLALD	SWKNLWTWFD	ISNWLWYIKI		LRIIFAVLSI
00BW2063 6	KNERDLLALD	SWKNLWNWFN	ISNWLWYIKI		LRIIFAVLSI
00BW2087 2	NNEKDLLALD	SWNNLWNWFD	ITKWLWYIKI		LRIIFAVLSM
00BW2127 2	QNEKDLLALD	RWDSLWNWFG	ISKWLWYIKI		LRIIFAVLSI
00BW2128 3	KNEEDLLALD	SWDSLWNWFS	ITKWLWYIKI	FIMIVGGLIG	
00BW2276 7	QNEKDLLALD	SWKNLWSWFD	ISNWLWYIKI	FIMIVGGLIG	
00BW3819 3	QNEKDLLALD	SWKNLWTWFD	ISNWLWYIKI	FIMIVGGLIG	
00BW3842 8	INEKDLLALD	SWNSLWNWFD	ITKWLWYIKI	FIMIVGGLIG	
00BW3871 3	KNEKDLLALD	SWKNLWNWFD	ITNWLWYIKI	FIMVVGGLIG	
00BW3876 9	ONEKDLLALD	SWNSLWSWFD	ITRWLWYIKI	FILIIGGLIG	
00BW3886 8	KNEQELLALD	SWKSLWNWFD	ITNWLWYIKI	FIMIVGGLIG	
00BW3891 6	RNEKDLLAMD	SWKNLWNWFD	ITNWLWYIKI		LRIIFAVLSL
00BW3970 2	QNEQDLLALN	KWQHLWNWFD	ITKWLWYIKI	FIMIVGGLIG	
00BW5031 1	QNEKDLLALD	SWKNLWSWFD	ISNWLWYIKI	FIMIVGGLIG	
96BW01B21	KNEKDLLALD	SWQNLWNWFS	ITNWLWYIKI	FIMIVGGLIG	
96BW0407	KNEKDLLALD	SWNNLWNWFS	ITNWLWYIKI	FIMIVGGLIG	
96BW0502	KNEKDLLALD	SWQNLWNWFS	ITNWLWYIKI	FIMIVGGLIG	
96BW06_J4	KNEKDLLALD	SWKNLWNWFG	ITNWLWYIKI	FIMIVGGLIG	
96BW11 06	KDEKDLLALD	SWQNLWNWFD	IPKWLWYIKI	FIMIVGGLIG FIMIVGGLIG	
96BW1210	QNEKDLLALD	SWANLWNWFN	ISNWLWYIKI	FIMIVGGLIG	
96BW15B03	QNEKDLLALD	SWNNLWSWFN	ISNWLWYIKI	FIMIVGGLIG	
96BW16 26	KNEKDLLALD	SWNSLWNWFS	IVNWLRYIKI	FIMIVGGLIG	
96BW17A09	KNEQELLALD	SWANLWNWFA	ISNWLWYIKI	FIMIVGGLIG	
96BWM01 5	RNEKDLLALD	SWKTLWSWFD	ISNWLWYIKI	FIMIVGGLIG	
96BWM03 2	KNEQDLLALD	SWANLWNWFN	ISNWLWYIKI	FIMIVGGLIG	
98BWMC12 2	ENEKDLLALD	SWKNLWNWFD		FIMIVGGLIG	TELLEVILOR
98BWMC13 4	KNEKDLLALD	SWKNLWNWFD	ITNWIWYTKT	FIMIVGGLIG	TETTENATION
98BWMC14_a	QNEKDLLALD		ISNWLWYTRT	FIMIVGGLIG	TELLEVATOR
98BWM014_1	KNEKDLLALD		ISSWLWYTKT	FIMIVGGLIG	TUTTENTACT
98BWM018_d			ISNWLWYIKT	FIMIVGGLIG	LOTTENIMET
98BWMO36_a	QNEKDLLALD	SWQSLWNWFS	ITKRLWYIKI	FIMIVGGLIG	T.DTTPAVIST
98BWMO37_d	QNEKDLLALD			FIMIVGGLIG	LRITEAVISI
99BW3932_1	KNEKDLLALD		ITNWLWYIKI	FIMIVGGLIG	I.PITEAVI.CT
99BW4642_4		SWKNLWTWFD	ISNWLWYIRI	FIMIVGGLIG	LRITFAVIST
99BW4745_8		RWDTLWSWFN		FIMIVGGLIG	I.DITENMET
99BW4754_7	KSEKDLLALD			FIMIVGGLIG	T.PTTFAVI.SV
99BWMC16_8		SWKNLWNWFN	ISNWLWYIKI	FIMIVGGLIG	LRITEAVIST
A2_CD_97CD	KNEQDLLALD	KWANLWNWFD	ITRWLWYIKI	FIMIVGGLIG	T.PTVTATICV
A2_CY_94CY		KWADLWSWFN	ISHWLWYIRI	FIMIVGGLIG	LETALISA
A2D97KR	KNEKDLLALD			FIMIVGGLIG	TRTUMATTON
A2G_CD_97C	KNKQDLLALD		ITKWLWYIKT	FIMIVGGLIG	L'BIALDIA CI
A_BY_97BL0		KAG.LXSXXD	ISNWLXYIXI	FILIVGGLIX	LRITEAMET
A_KE_Q23_A	KNEKELLELD	KWANLWSWFD	ISNWLWYIKI	FILIVGGLIG	LRIVEDIM.CA
A_SE_SE659		KWANLWNWFD		FIMIVGGLIG	L'ELALY MON
A_SE_SE725	KNEQDLLALD	KWANLWNWFE	ITKWLWYIKI	FIMIVGGLTG	LRTVFAVESV
A_SE_SE753	KNEQDLMALD	KWTNLWTWFS	ISNWLWYIRI	FIMIVGGLIG	LRTVFAVI.AT

A_SE_SE85		D KWASLWNWF	D ISRWLWYIR	I FIMINGGLIC	G LRIVFAVLSV
A_SE_SE88		D KWANLWNWF	O TOVAPALIK	T FIMIVEGET	G LRIVIAVISI
A_SE_UGSE		D KWANLWNWF	D TOMMINALIK	T FIMINGGLIO	LRIVIAVISI LRIVFAVLTV
A_UG_92UG		D KWASLWNWF	D TOVADALIK	T FIMINGGLIG	LRIVFAVLTV
A_UG_U455_		D KWANLN.WF	N TOWNIMAIS	L FVIIVGGLIG	LRIVEAVLSV
AC_IN_2130		D KWADLWNWF	D ISNWLWYTK	T FIMINGGLIG	LRIVFTVLSI LRIVFAVLSV
AC_RW_92RW	~=		D ISNWLWYTK	I FIMIVGGLIG	LRIVFAVLSV
AC_SE_SE94		O KWASLWNWF		I FIMIVGGLIG	LRIIFAVLSI
ACD_SE_SE8		O KWGSLWNWF		I FIMIVGGLIG	LRIVFAVLSI
ACG_BE_VI1		KWQNLWSWF1		T PIMITYGGLIG	LRIVFAVLSV
AD_SE_SE69		) KWANLWSWFI		I FIMIVGGLIG	LRIIFAILSI
AD_SE_SE71		KWASLWNWFI		I FIMIVGGLIG	LRIVFAVLSL
ADHK_NO_97		KWASLWNWFI		I FIIIVGGLIG	LRIVFAVLSL
ADK_CD_MAL		KWASLWNWF		I FIMIVGGVIG	LRIVFAVLSI
AG_BE_VI11		KWASLWTWFI		I FIIVVGGLIG	LRIIFAVLSL
AG_NG_92NG	KNEQDLLALI	KWASLWNWFI		I FIMIVGGLIG	LRVVFAVLNV
AGHU_GA_VI	KNEQELLALI	KWASLWSWFI		FIMIVGGLIG	LRIVFAVLSI
AGU_CD_Z32	INERDLLALD	KWANLWNWFI		FIMIVGGLIG	LRIFFAVLSM
AJ_BW_BW21	KNEQDLLSLD	KWASLWNWFS		FIMIVGGLIG	LRIVFAVLSI
B_AU_VH_AF	KNEQELLALD	KWASLWNWFS		FIMIVGGLIG	LRIIFAVLAI
B_CN_RL42_	KNELELLELD	KWASLWNWFI		FIMIVGGLVG	LRIVFAVLSL
B_DE_D31_U	KNEQELLELN			FIMIVGGLVG	LRIVFAVLSI
B_DE_HAN_U	KNEQELLELD			FIMIVGGLVG	LRIVFAVLSI
B_FR_HXB2_	KNEQELLELD			FIMIVGGLIG	LRIVFAVLSI
B_GA_OYI	KNEQELLELD			FIMIVGGLVG	LRIVFAVLSI
B_GB_CAM1_	KNĒKDĻĻĒĻD			FIIIVGGLVG	LRIVFAVLSI
B_GB_GB8_C	KNEQELLELD	KWANLWNWFD		FIMIIGGLIG	LRIVFTILSL
B_GB_MANC_	KNEQELLELD	KWGSLWSWFS		FIMIIGGLIG	LRIIFAVIST
B_KR_WK_AF	KNEQELLELD			FIMIVGGLVG	LRIVFAVLSL
B_NL_3202A	KNEQELLELD			FIMIVGGLVG	LRIIFFVLSI
B_TW_TWCYS		KWASLWNWFD		FIMIVGGLVG	LRIIFAVLSI
B_US_BC_L0	KNEQELLELD	KWASLWNWFT		FIMIVGGLIG	LRIVFAVLSI
B_US_DH123	KNEQELLALD			FIMIVGGLIG	LRIVFTVLSI
B_US_JRCSF	KNEQELLELD			FIMIVGGLIG	LRIVFSVLSI
B_US_MNCG	KNEQELLELD		TIVATATIVE	FIMIVGGLIG	LRIVFSVLSI
B_US_P896	KNEKELLELD		TIMMUMATKT	FIMIVGGLVG	LRIVFAVLSI
B_US_RF M1	KNEQELLELD		TIMMTMATKT	FIMIVGGLIG	LRIVFAVLSI
B_US_SF2_K	KNEQELLELD	KWASLWNWFS	TIOMPATER	FIMIVGGLVG	LKIVFAVLSI
B_US_WEAU1	KNEOELLELD	KWASLWTWFD	TIMMIMATKI	FIMIVGGLVG	LRIVFAVLSI
B_US_WR27	KNEOELLELD	KWASLWNWFN	TOWNTWATKI	FIMIVGGLIG	LRIVFTVLSI
B_US_YU2 M	KNEQELLALD		TIOMPAXIKI	FXMIVGGLIG	LRIVFAVLSI
BF1_BR_93B	KNEOELLALD	KMASI WINNED	TIKMTMAIKI	FIMIVGGLIG	LRIVFVVLSI
C_BR_92BR0	KNEODLIALD	KMUMITMAMEC	TRYMINATKI	FIMIVGGLIG	LRIVFAVLSI
C_BW 96BW0					
C_BW_96BW1					
C_BW_96BW1					
C_BW_96BW1					
C_ET_ETH22					
C_IN_93IN1					
C_IN_93IN9					
C_IN_93IN9					
C_IN_94IN1					
C_IN 95IN2					
CRF01_AE_C					
CRF01_AE C					
CRF01 AE C					
CRF01_AE_T		TOTHINED	TIKMTMXTKT	FIMIVGGLTG T	DTMPAMET
CRF01_AE_T		DEMINITE	TIMMUMATET	FIMIVGGLTG T	DTTPAUTOT
CRF01_AE_T	RNEKDLLELD				
CRF01_AE_T	KMEKULI ELE .	- MILITIE	TIVMDMITKT	FIMIVGGLTG T	PTTPAUTOT
CRF01_AE_T		THE THINK D	TISMTMATKI	FIMIVGGLTG t	PTTPAMET
0 T_UE_1	RNEKDLLELD 1	KWASLWNWFD	ITNWLWYIKI	FIMIVGGLIG I	RIIFAVLST

CRF01 AE T	DMEKTIT.KT T	TOTAL OF COMME			•
CRF02_AG_F	KMEODLISTI	O KWASLWNWFI O QWANLWNWFO		I FIMIVGGLIG	LRIVFAVLSI
CRF02_AG F	KNEKDLLALI			I FIMIVGGLIG	LRIVFAVLTI
CRF02_AG_G	KNEQDLLALI			I FIMIVGGLIG	LRIVLAVLTV
CRF02_AG_N	KNEQDLLALI		) ITKWLWYIK:	I FIMIVGGLIG	LRIVEVVIAT
CRF02 AG S	<del></del>		) ITNWLWYIR:	T FIMIVGGLIG	LRIVFAVITT
CRF02 AG S	KNEQDLLALD		: ISSWLWYIR]	[ FIIIVGGLIG	LRIVFAVIAT
CRF03_AB R	KNEODLLALD		) ITNWLWYIL]	FLMVVGGLIG	LRIVFAVLAT
CRF03_AB_R	KNEQEILALD		ISKWLWYIK]	FIMIVGGLVG	LRITFAVLST
CRF04_cpx	KNEQELLALD		ISKWLWYIKI	FIMIVGGLVG	LRIIFAVIST
CRF04_cpx_	KNEQDLLALD		ITKWLWYIKI	FIMIVGGLIG	LRIIFAVUST
CRF04_Cpx_	KNEQDLLAFD		ISNWLWYIKI	FIMIVGGLIG	LRITFAVLST
	MEODITIALD	KWANLWSWFD	ISHWLWYIKI	FIMIVGGLIG	LRIVFAVLST
CRF05_DF_B	KNEGETTSPD	QWASLWNWFD	ITKWLWYIKI	FIMIVGGLIG	LRTVFTVI.ST
CRF05_DF_B	KNEKDLLALD	. KWASLWNWFS	ISNWLWYIRI	FIMIVGGLIG	LRIVETVISV
CRF06_cpx_	KNEODLLALD	KWANLWSWFD	IIMMTMAIKI	FIMIVGGLIG	LRIVFAVIST
CRF06_cpx_	KNEQDLLALD	KWASLWSWFD	ISNWLWYIRI	FVIIVGGLLG	LRIVFAVEST
CRF06_cpx_	KNEQDLLALD	KWASLWNWFD	ISNWLWYIKI	FIMIVGGLIG	LRIVFAVLST
CRF06_cpx_	KNEQELLALD	KWASLWSWFD	ISNWLWYIKI	FIMIVGGLIG	LKIVFAVI.SI.
CRF11_cpx_	KNEQDLLSLD	KWASLWSWFD	ITNWLWYIKI	FIMIVGGLIG	LRITFAVLSV
CRF11_cpx_	KNEQDLLALD	KWASLWNWFD	ISNWLWYIRI	FIMIVGGLIG	LRITFAVIST
D_CD_84ZR0	KNEKELLELD	KWASLWNWFS	ITQWLWYIKI	FIMIVGGLIG	LRIVEAVIST
D_CD_ELI_K		KWASLWNWFS	ITQWLWYIKI	FIMIIGGLIG	LRIVEAVISI
D_CD_NDK_M	KNEKELLELD	KWASLWNWFS	ITKWLWYIKL	FIMIVGGLIG	LRIVEAULSU
D_UG_94UG1	KNEQELLKLD	TWASLWNWFS	ITQWLWYIKI	FIMIVGGLIG	LRIVEAVI.SV
F1_BE_VI85	KNEQELLALD		ISNWLWYIKI	FIMIVGGLIG	LRIVEAVIST
F1_BR_93BR	KNEQELLALD		ITQWLWYIKI	FIMIVGGLIG	LRIVETVIST
F1_FI_FIN9	RNEQELLELD		ITNWLWYIKI	FIMIVGGLIG	LRTVFAVLST
F1_FR_MP41	KNEQELLALD	KWASLWSWFD	ISNWLWYIKI	FIMIVGGMIG	LRIVEAULST
F2_CM_MP25	KNEQDLLALD	KWDNLWNWFS	ITRWLWYIEI	FIMIIGSLIG	LPTVPTVI.CT
F2KU_BE_VI	KNEQDLLALD	QWASLWSWFN	ITQWLWYIKI	FIMIVGGLIG	T.RTTPAM.er
G_BE_DRCBL	KNEQDLLALD	QWASLWSWFS	ISNWLWYIRI	FVMIVGGLIG	LRIVEAULET
G_NG_92NG0	KNEQDLLALD	KWASLWNWFD	ISNWLWYIRI	FIMIVGGLIG	LETVENUET
G_SE_SE616	KNEQDLLALD	QWASLWNWFG	ITRWLWYIKI	FIMIVGGLIG	LDTVENULCT
H_BE_VI991	KNEQDLLALD	KWANLWNWFS	ITNWLWYIRI	FIMIVGGIIG	LPTVFAVLGT
H_BE_VI997	QNEQDLLALD	KWDSLWNWFS	ITNWLWYIKI	FIIIVGALIG	LDITENIMET
H_CF_90CF0	KNEQDLLALD	KWASLWTWFD	ISHWLWYIKI	FIMIVGGLIG	TELLEVILLE
J_SE_SE702	TNEKDLLALD	KWTNLWNWFN	ISNWLWYIKI	FIMIIGGLIG	TOTTENTE
J_SE_SE788	NNEKDLLALD	KWTNLWNWFN	ISNWLWYIKI	FIMIIGGLIG	TOTTENTA T
K_CD_EQTB1	KNEQDLLALD	KWASLWNWFD	ISNWLWYIKI	FIMIVGGLIG	TOTIVE TOTI
K_CM_MP535	KNEQDLLALD	KWASLWNWFD	ITKWLWYIKI	FIMIIGGLIG	TO IN ENTITION
N_CM_YBF30	TNEKSLLELD	QWDSLWSWFG	ITKWLWYIKI		IRIISIVITI
O_CM_ANT70	ONEKKLLELD	EWASIWNWLD	ITKWLWYIKI	AIIIVGALVG	**************************************
O_CM_MVP51	KNVKALLELD		ITKWLWYIKI	AIIIVGALIG	A TO A TIME A TIME A
O_SN_99SE_	QNEKKLLELD	EMASTMUMTD	ITKWLWYIKI	AIIIVGALIG	TO TOM TOT 3TT
	HNEKKLLELD	EWASTWNWLD	TTKWTWVTKT	ATTTUCATED .	TD T1 = 1 = 1 = 1 = 1
U_CD83C	KSEKDLLELD	KWASLWNWFD	ITNWLWYIKT	FIMIVGGLIG 1	A TANDER STORE THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF THE A TANDER OF
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00BW0762 1	801	I GDOOT ED			850
00BW0762_1 00BW0768 2	VNKVKQGISP	LSFQTLTP	NOR GPDRLG	GIEEEGGEQD	RDRSIRLVSG
00BW0874 2	WINDIADGASE	TOPOUT UP	NPR.GPDRLG SPR.EPDRLG	RIEEEGGEQD	KDRSIRLVSG
00BW1471_2	VMRVROGVSD	LOPOTIATE	NPR.GPDRLE	KIEEEGGEQD	KDRSIRLVGG
00BW1616 2	VNRVROGVSP	LSFQILIF	NPR.ELDRLG	RIEEEGGEQD	RGRSVRLVSG
00BW1686 8	VNRVROGVSP	TSTQILIP	NPR.GPDRPR	RIEEEGGEQD	RDRSIRLVSG
00BW1759 3	VNRVROGVSP	SSECTITE	NPE.GPDRLR	GIEREGGEQD	KDRSIRLVNG
00BW1773 2	VNRVROGYSP	LSFOTI.TD	NPR.GPDRLG	RIEEEGGEQD	RDRSIRLVNG
00BW1783 5		LSFQTLIP			RDRSVRLVSG
00BW1795 6			NPR.GPDRLG	RIEEEGGEQD	RDRSIRLVSG
00BW1811 3	VNRVROGYSP	LSFOTLIP.	NPG.GPDRLG	RIEEEGGEOD	RDRSIRLVSG
00BW1859 5	VNRVROGYSP	LSFOTLTP.	NPR.GPDRLG	CIEFECCEOD	RDRSVRLVNG RDRSIRLVNG
00BW1880_2	VNRVROGYSP	LSLQTLSP	NQR.GLDRLG		RDKSIRLVNG
00BW1921 1			NPR.ELDRLG	RIEEEGGEOD	RGRSIRLVNG
00BW2036 1	VNRVRQGYSP	LSFOTLTP	NPR.GLDRLG	RIEEEGGEOD	RGRSIRLVQG
00BW2063_6	VNRVRQGYSP	LSFQTLTP	NPR.GPDKLE	RIEEEGGEOD	RNRSIRLVSG
00BW2087_2	VNRVRQGYSP	LSFQTLTP	NPR.EPDRLG	RIEEEGGEOD	RERSIRLVSG
00BW2127_2	VNRVRQGYSP	LSFQTLTP	NPR.GPDRLG	RTEEEGGEOD	NDRSIRLASG
00BW2128_3	VKRVRQGYSP	LSFQTLTP	NPG.GPDRLG	RIEEEGGEOD	REKSVRLVNG
00BW2276_7	VNRVRQGYSP	LSFQTLTP	NPR.GPDRLG	GIEEEGGKOD	RDRSIRLVSG
00BW3819_3	VNRVRQGYSP	LSLQTLTP	SPR.GPDGLR	GIEEEGGEOD	KDRSIRLVNG
00BW3842_8	VNRVRQGYSP	LSLQTLTP	NPR.ELDRLG	RIEEEGGEOD	RDRSIRLVDG
00BW3871_3	VNRVRQGYSP	LSLQTLTP	NPR.ELDRLG	RIEEEGGEOD	KDRSIRLVNG
00BW3876_9	VNRVRQGYSP	LSFQTLTP	NPR.EPDRPG	RIEKEGGEQD	KSRSIRLVSG
00BW3886_8	VNRVRQGYSP	LSFQTLTP	NTR.ELDRLG	RIEEEGGEQG	RDRSIRLLNG
00BW3891_6	VNRVRQGYSP	LSFQTLIP	NPR.GLDRLG		RDRSIRLVNG
00BW3970_2		LSLQTLTP	-	RIEEEGGEQD	RKRSIRLVSG
00BW5031_1	VNRVRQGYSP			RIEEEGGEQD	RDRSIRLANG
96BW01B21		LSFQTLTQ			KDRSIRLVNG
96BW0407		LSFQTLIP		RIEEEGGEQD	RGRSIRLVSG
96BW0502		LPFQTLTP	-	RIEEEGGEQD	RGRSIRLVSG
96BW06_J4		LSFQTLPP		RIEEGGGEQD	RDRSIRLVNG
96BW11_06 96BW1210		LSFQTLTP		RIEEEGGEQD	RNRSIRLVSG
96BW15B03			NPR.GLDRLG	RIEEEGGEQD	RDRSIRLVSG
96BW16 26	VNRVROGVSP	TCEOTITE	NPR.GLDRLG	RIEEEGGEQD	RDRSIRLVQG
96BW17A09	VNRVROGVSP	T.ST.OTT.TD	NPR.GPDGLE	RIEEEGGEQD	RDRSVRLVHG
96BWMO1 5	VNRVROGYSP	LSEQUETE	NPR.GPDGLE	CIEEEGGEOD	RGRSIRLVSG
96BWM03_2	VNRVROGYSP	T.PFOTT.TP	NPR.ELDRLG	GIEEECCEOD	KDRSIRLVSG
98BWMC12 2	VNRVROGYSP	LSFOTLNP	NPR.GLDRLG	RIEEEGGEOD	KUKSIKLVSG
98BWMC13 4	VNRVRQGYSP	LSFOTLTP	NPR.GPDRLE	RIEEEGGEOD	KSISIKLVNG
98BWMC14_a	VNRVRQGYSL	TSLOTHLP	NAG.GLDRLD	RIGEEGGEOD	PHPSTPINGG
98BWM014_1	VNRVRQGYSP	LSFQTLTP	VPR.EPDRLG	GIEEEGGEOD	RDRSVRLVNG
98BWM018_d	VNRVRQGYSP	LSFQTLTP	NPR.GPDRLG	RIEEEGGEOD	RDRSTRLVSG
98BWMO36_a	INRVRQGYSP	LSFQTLTP	TPR.DPDRLR	GIEEEGGEOD	RDRSIRLVSG
98BWM037_d	VNRVRQGYSL	TSFQTVIP	NPR.GPDRPR	GIEEEGGEOD	RDRSIRLVSG
99BW3932 <u></u> 1	VNRVRQGYSL	LSFQTLTP	NPR.GPDRLG	GIEEEGGEOD	RDRSTRLVNG
99BW4642_4	VNRVRQGYSP	LSFQTLTP	NPR.ELDRLG	RIEEEGGEOD	RDRSVRLVNG
99BW4745_8	VNRVRQGYSP	LSLQTLTP	SPR.RPDRLG	GIEEEGGEOD	RTRSVRLVNG
99BW4754_7	VNRVRQGYSP	LSFQTLTP	NQR.GPDRLG	EIEEEGGEQD	RDRSIRLVNG
99BWMC16_8	VNRVRQGYSP	LSFQTLAP	NPG.GLDRLG	RIEEEGGEQD	RGRSIRLVNG
A2_CD_97CD	VKRVRQGYSP	LSFQIPTP	NPE.GLDRPG	RIEEEGGEQG	RDRSIRLVSG
A2_CY_94CY	VNRVRQGYSP	VSFQIPTP	SPE.GPDRPR	GTEEGGGEQG	RDRSIRLVNG
A2D97KR	VNKVRQGYSP	VSFQIPPP	TPE.DPDRHG	RIEDGGGEQG	RDRSVRLVSG
A2G_CD_97C	VMKVKQGYSP	LSFQTLTH	HQR.EPDRPE	RIEEGGGEQD	RDRSVRLVSG
A_BY_97BL0	IMMAKAXISP	LSLQTLTP	HPE.RPDRPX	RIKEEGXEQG	RDRSIRLVSG
A_KE_Q23_A A_SE_SE659	TMEANCACA	LOROTIMD	NPR.GLDRPE	RIEEEDGEQG	RGRSIRLVSG
A_SE_SE039 A_SE_SE725	TMDVDOGVOD	TOPOTUTE	NPG.GLDRPG	KIEEEGGEQG	RDRSIRLVSG
A SE SE753	INEAROGISE	PSEATURE	DPR.GLDRPR NPR.DPDRPG	KIEEEGGEQG	RGRSIRLVSG
		~or QIRIF	MER. DEDKEG	POSSERGE	KUKSIRLASG

A_SE_SE853	INRVRQGYSP	LSFQIHTP.	. NPG.DLDRP	PIPPPGGEO	D RGRSIRLVSG
A_SE_SE889		ATITE *	. 504 (4).000	l DIDDDAADA	<b></b>
A_SE_UGSE8					
A_UG_92UG0					
A_UG_U455_		TOT CITTUDE.	. (PR: (31./30 Dr	' DIDDDOODO	·
AC_IN_2130			. NPG GIADOR	1 DIDDDDDDAA	~
AC_RW_92RW	. TITT TAKE OF DE	DOLGINIE.	. NPR.GPNDT.C	2 CIDDDOODO	<b> </b>
AC_SE_SE94		TOLOTOTE.	. NPG GUUDD	i Deparanci	<b>***</b>
ACD_SE_SE8	INRVRQGYSP	LSFQTHTP.	. NPE GVDRPG	CENTRAL PROPERTY S	RDRSIRLVSG RDRSIRLVSG
ACG_BE_VI1		TOLOTOTE .	. NPR.GPNPDA	. DIDDAAA	· ~~~~~~~~
AD_SE_SE69	VNRVRQGYSP	LSFQTLLP.	APRGP DPP	OGDODGGTD :	RDTSTRLVSG RGRSIRLVNG
AD_SE_SE71	INRVRQGYSP	LSFQTHTP.	NPR DIDEPE	PIPPCCCPO	RGRSIRLVNG RTRSIRLVSG
ADHK_NO_97	VNRVRQGYSP	LSFOTLIP.		CIEEEGGEEQI	XNRSIRLVNG
ADK_CD_MAL	VNRVRQGYSP	LSLQTLLP.		GIEEEGGEQL	RGRSIRLVNG
AG_BE_VI11	INRVRQGYSP	LSFQILTP.		DIEEEGGEQC	RGRSIRLVNG RDTSRRLVGG
AG_NG_92NG	VNRVRQGYSP	LSFQTLTH.		L KIEEGGGEÖT	RDTSRRLVGG RDRSVRLVSG
AGHU_GA_VI	VNRVRQGYSP	LSFQTLFP.		CIEEECCEOL	RDRSVRLVSG RSRSIRLVNG
AGU_CD_Z32	INRVRQGYSP	LSFOTLTH.		CIRECCOROR	RSRSIRLVNG
AJ_BW_BW21	VNRVRQGYSP	LSLOTLIP.		CIEECCOROL	RDRSIRLVSG
B_AU_VH_AF	VKKVREGYSP	LSLOIRPP.		GIEEGGGEOG	KTRSIRLVNG
B_CN_RL42	VNRVRQGYSP	LSLOTRFP.		GIEEEGGEOL	RDKSVRLVDG
B_DE_D31_U	Vnsvrqgysp	LSFOTRLP.		GIEEEGGERL	RDRSERLVTG
B_DE_HAN_U	VNRVRQGYSP	LSFOTLLP.		GIEEEGGDKL	RDRSNRLVKG
B_FR_HXB2_	VNRVRQGYSP	LSFOTHLP.		CIERROGERL	RGRSVRLVSG RDRSIRLVNG
B_GA_OYI_	VNRVRQGYSP	LSFOTRLP.		GIEEEGGERD	RDRSIRLVNG
B_GB_CAM1_	VNRVRQGYSP	LSFOTRFP.		GIEEEGGERD	
B_GB_GB8_C	VNRVRQGYSP	LSLOTHLP.		GIEEEGGGRD	RDTSGRLVTG
B_GB_MANC	VNRVRQGYPP	LSFOTHIP.		GIEEEGGEOD	RDRSIRLVNG
B_KR_WK_AF	VNRVRQGYSP	LSFOTHER		GIEGEGGEGD	
B_NL_3202A	VNRVRQGYSP	LSFOTRIP		GIEGEGGEGD	
B_TW_TWCYS	VNRVRQGYSP	LSFOTHIP		GIEEEGGERD	
B_US_BC_L0	VNRVRQGYSP	LSFOTHT		GIEEEGGERD	
B_US_DH123	VNRVROGYSP	LSFOTRED	ASRGP.DRPE	GIEEEGGERD	
B_US_JRCSF	VNRVRQGYSP	LSFOTLLP	ATRGP. DRPE	GIEEEGGDRD	
B_US_MNCG	VNRVRQGYSP	LSLOTRPP.	VPRGP.DRPE	GIEEEGGERD	
B_US_P896	VNRVRQGYSP	LSFOTLIP	ASRGP.DRPE	GIEEEGGERD	RDTSGRLVHG
B_US_RF_M1	VNRVRQGYSP	LSFOTHI.P	APRGP.DRPE	GTEEEGGERD	RDRSGPLVNG
B_US_SF2_K	VNRVROGYSP	LSFOTRID	VPRGP.DRPD	GIEGEGGERD	RDRSGGAVNG
B_US_WEAU1	VNRVROGYSP	LSFOTHI.P	APRGP.DRPE	GIEEEGGERD	RDRSVRLVDG
B_US_WR27	XNRVRQGXSP	LSFOTLLD	WERGE DREE	GIEEEGGERD	RDRSGRLVDG
B_US_YU2 M	VNRVRQGYSP	LSFOTHI.P	AUDGD DADD	GIEEEGGERD	RDRSNRLVHG
BF1_BR_93B	VNRVRKGYSP	LSLOTREP	EDER DERE	GIEEEGGERD	RDRSGPLVDG
C_BR_92BR0	VNRVRQGYSP VNRVRQGYSP	LSFOTTTP	MDD GDDDIG	GIEEGGGEPG	KDRSVRLVNG
C_BW_96BW0	VNRVRQGYSP	LSFOTTTP	MIN GEDRIG	GIEEEGGEQD	RDRSIRLVSG
C_BW_96BW1	VNRVRQGYSP	LSFOTTTP	MDD GDDYIG	GIEEEGGEQD	RDRSIRLVSG
C_BW_96BW1	VNRVRQGYSP	LSFOTTTP	MIN.GPDRIE	RIEEEGGEOD	RNRSIRLVSG
C_BW_96BW1	VNRVRQGYSP	LSFOTTTP	MDB GIDDIG	KIEEEGGEQD	RDRSIRLVSG
C_ET_ETH22	VNRVRQGYSP	LSFOTLTP	HDD CDDDIG	CIERREGGEOD	RDRSIRLVQG
C_IN_93IN1	VNRVROGYSP	LSFOTLTP	MDB GDDDIG	GIEREGGEOG	RDRSIRLVNG
C_IN_93IN9	VNRVRQGYSP	LSFOTPTP	NDG GDDDIG	KIEEEGGEOD	KDRSIRLVNG
C_IN_93IN9	VNRVRQGYSP	LSFOTTT	MPG CDDDIG	KIEEEGGEQG	KDRSIRLVNG
C_IN_94IN1	VNRVRQGYSP 1	LSFOTPTP	MDG GDDD10	KIEEEGGEQD	KNRSIRLVNG
C_IN_95IN2	VNRVRQGYSP   VNRVRQGYSP	LSFOTTTD	MIDG CDDD1C	KIRERGGGÖD	NVRSIRLVNG
CRF01 AE C	VNRVRQGYSP I	LSFOTTT	MEG.GEDKTG	KIREEGGEOD	KDRSIRLVSG
CRF01_AE_C	VNRVRQGYSP I	LSFOTT.TU	TYKE BYDESE	KTEEGGGEEG	KDRSIRLVSG
CRF01_AE_C	VNRVRQGYSP I	SFOTT.TE	ACK BLOKEE	KIREESGEÖG	RDRSIRLVSG
CRF01 AE T	VNRVRQGYSP I	SPOTOTU	HOR BULLE	KTREGGGEOD	KDRSVRLVSG
CRF01 AE T	VNRVRQGYSP I	SIOTOTE	HOR EDDES	KIEEGGGEQG	RDRSVRLVSG
CRF01 AE T	VNRVRQGYSP I	SFOTOTU	TODOESDESS	KTEEGGGEOG	RDRSVRLVSG
CRF01 AE T	VNRVRQGYSP I	SEOTOLU	TOR BESSET	KTREGGGEÖG	RDRSVRLVSG
CRF01 AE T	VNRVRQGYSP I	SFOTPSU	HOK BDDDD	KTREEGGEOG	RDRSVRLVSG
	VNRVRQGYSP I	garon	TAN' PANKAR	GTREGGGEÖG	RDRSVRLVSG

CRF01_AE_T	VNRVRQGYSP	LSFQTLSH	HQR.DPDRPE	RIEEGGGEQG	RDRSVRLVSG
CRF02_AG_F				RIEEGGGEQD	
CRF02_AG_F	IKRVRQGYSP	LSFQTLTH	HQR.EPDRPE	RIEEGGGEQD	KDRSVRLVSG
CRF02_AG_G	INRVRQGYSP	LSFQILTP	NPR.GPDRPE	GIEEGGGEQD	RDRSIRLVSG
CRF02_AG_N				RIEEGGGEQD	
CRF02_AG_S				RIEEGGGGQD	
CRF02_AG_S	INRVRQGYSP	LSFQTLTH	HQR.GADRPE	GIEEGGGEQD	RDRSVRLVSG
CRF03_AB_R				GIEEEDGERD	
CRF03_AB_R		LSFQTRLP		GIEEEGGERD	
CRF04_cpx_	VNRVRQGYSP	LSLQTLIPT.		GTEEEGGEQD	
CRF04_cpx_	VNRVRQGYSP	LSFQTLIP		GTEEEGGEQD	
CRF04_cpx_	VKRVRQGYSP	LSSQTLIPT.		GTEGGGGEQD	
CRF05_DF_B				ETEEGGGEQD	
CRF05_DF_B				GTEEEGGEQG	
CRF06_cpx_				EIEEGGGEQG	
CRF06_cpx_				EIEEEGGEQG	
CRF06_cpx_				GIEEGGGEQG	
CRF06_cpx_				EIEGGGGEQD	
CRF11_cpx_				GIEEGGGEQG	
CRF11 cpx				GTKEGGGEQG	
D CD 84ZRO				GIEEEGGEQD	
D CD ELI K	VNRVRQGYSP	LSFQTLLP	APRGP.DRPE	GTEEEGGERG	RDRSVRLLNG
D CD NDK M				EIEEEGGERG	
D UG 94UG1				GIEEEGGERD	
F1 BE VI85				GIEEGGEQG	
F1 BR 93BR	VNRVRKGYSP	LSFQTHIP	SPREP.DRPE	GIEEGGEQG	KDRSVRLVTG
F1 FI FIN9	VNRVRKGYSP	LSLQTLIP	APTEP.DRPE	GIEEGGGEQG	KDRSVRLVNG
F1_FR_MP41				GIEEGGGEQD	
F2 CM MP25				GIEEEGGEQD	
F2KU BE VI	VNRVRQGYSP	LSFQTLIP	SPRGP.DRPE	GTEERGGEQD	RDRSTRLVSG
G_BE_DRCBL				GIEEGGGEQD	
G_NG_92NG0				KTEEGGGEQD	
G SE SE616	VNRVRQGYSP	LSFQTLTH	HQREP.DRPE	GIEEGGGEQG	RGRSVRLVSG
H BE VI991	VNRVRQGYSP	LSLQTLIP	NQRGP.DRPR	EIEEEGGEQD	RDRSIRLVNG
H_BE_V1997	VGRVRQGYSP	LSFQTLIP	NPRGP.DRPE	GIEEEGGEQD	RGRSVRLVNG
H_CF_90CF0	VNRVRQGYSP	LSFQTLVP	NPRGP.DRPE	GTEEGGGEQD	RDRSVRLVNG
J SE SE702	VNRVRQGYSP	LSFQTLIP	NPTEA.DRPG	GIEEGGGEQG	RTRSIRLVNG
J SE SE788				GIEEGGEQG	
K_CD_EQTB1				GIEEGGGEQD	
K CM MP535		LSFQTLIP		GIEEEGGEQD	
N CM YBF30				ETEGGVGEQD	
O CM ANT70		LSLQIPNHH.		RTGGGGGEEG	
O CM MVP51				RTGEEGGEGD	
O SN 99SE		LSFKTHIHH.		GTGEGGGERG	
O SN 99SE				GTGEGGGERD	
U CD 83C				RTEEEGGEED	

	851				000
00BW0762 1		SLCLESYHRI	RDFILVAARA	WRI.I.GDCCI.K	900
00BW0768 2	FLALVWDDLR	RLCLFSYHRI	RDFILVATRA	VELLGRSSLR VELLGRSSLR	GIODGMENTA
00BW0874 2	FLALAWDDLR	SLCLESYHRI	RDFILIAART	WELLGROSHK	CLOBCMEALK
00BW1471 2	FLTLAWDDLR	SLCIFLYRLL	SDFISIAART	WILLGONGIA	GLODGMENTK
00BW1616 2	FLALAWDDLR	SLCLFSYHRL	RDFTLIAARA	VETT.CD	DCMEATA
00BW1686 8	FLALAWDDLR	SLCLESYHOL	RDFILIVARA	VPI.I.CDNCI.D	CI ODCWELL K
00BW1759 3	FLALFWDDLR	SLCLFSYHRL	RDLILVTARA	VELLG	ODCMENTA
00BW1773 2	FLALTWDDLR	SLCLFCYHRI	RDFILIAARV	VELLGDEST.D	CI OKCMENIK
00BW1783 5	FLALAWDDLR	SLCLFSYHRL	RDFILVTARA	WFI.I.CDCCI.D	GLODOWEALK
00BW1795 6	FLALAWDDLR	SLCLFCYRRL	RDFILVTARA	AETT'GBGGI'K	GLODGMETTA
00BW1811 3	FFALAWDDLR	SLCLFCYHRL	RDFILVTARA	VELTGHSSIK	GLODGWEILK
00BW1859 5	FLALAWDDLR	SLCLFSYHRL	RDCILIAARA	VELLGHOOLIC	GLODGMEITK
00BW1880 2	FLALAWDDLR	SLCLFSYHRL	RDFILVTARA	VELLGREGIK	GTODGMEATI'S
00BW1921 1	FLPLVWEDLR	SLCLFSYHRL	RDLILVVARA	VELLGREELP	GTOKGMETTK
00BW2036 1	FLALAWDDLR	NLCLFSYHOL	RDLILVTTRV	VELLGRESLR	GIODGMENT'R
00BW2063_6	FLALAWDDLR	SLCLFCYHRL	KDFVLVTARV	VELLGLSSLK	GI-OBGMETI'R
00BW2087_2	FLPLFWDDLR	SLCLFSYHRL	RDLILIAARA	VELLGRSSLR	GLORGWEILK
00BW2127_2	FLAPAWDDLR	SLCLFSYHRL	RDLILVTARV	VELLGRS	CHEVIK
00BW2128_3	FLALFWDDLR	SLCLFSYHRL	RDFILIAARV	VELLGREELR	GI/ODGMETT.K
00BW2276_7	FLALAWDDLR	SLCLFSYHRL	RDFILVTARA	VELLGRSSLR	GI'OBGMEAL'K
00BW3819_3	FLALAWDDLR	SLCLFSYHRL	RDLTLVTARG	IELMGRSSLR	GI,OKGWRAT.K
00BW3842_8	FLALAWEDLR	SLCLFSYHRL	RDLILVTARA	VELLGRSSLR	GLORGWEALK
00BW3871_3	FLALAWDDLR	SLCLFSYHRL	RDFILIVARV	VELLGRSSLR	GLOKGWETT.K
00BW3876_9	FLALAWDDPR	SLCLFSYHRL	RDFILVVVRA	VELLGRSSLK	GLKRGWEALE
00BW3886_8	FLAIAWDDLR	SLCLFSYHRL	RDFILLIARA	VELLGRSSLK	GT-ORGWEAT.K
00BW3891_6	FLALAWEDLR	SLCLFSYHRL	RDFILVTARA	VELLGRSSLR	GLORGWRALK
00BW3970_2	FLALAWDDLR	SLCLFSYHHL	RDFILIAARV	VELLGR	RGWDTLK
00BW5031_1	FLALAWEDLR	SLCLFSYRHL	RDFILIVVRA	VELLGRSSLR	GIOKGWDALK
96BW01B21	FLPLVWDDLR	NLCLFSYHRL	RDFILVIARA	VELLGRSSLR	GLORGWETLK
96BW0407	FLALAWDDLR	SLCLFSYHRL	RDFILIAARA	AELLGRSGLR	GLOKGWETT.K
96BW0502	FLALAWDDLR	SLCLFSYHRL	RDFILIAARV	LELLG	ORGWEALK
96BW06_J4	FLALAWDDLR	SLCLFSYHQL	RDFILVVARA	VELLGRSSLR	GI-ORGWEAT.K
96BW11_06	FLALAWDDLR	SLCLFCYHRL	RDFTLVTARA	VELLGRSSLK	GLORGWEILK
96BW1210	FLALAWDDLR	SLCLFSYHRL	RDSILVAART	VELLGRSSLR	GLORGWEALK
96BW15B03	FLALAWDDLR	SLCLFSYHRL	RDLILVTARV	VELLGRSSLR	GLORGWEALK
96BW16_26	FLALAWDDLR	SLCLFSYHRL	RDFILVAVRV	VELLGR	RGWRALK
96BW17A09	FLALAWDDLR	SLCIFLYHHL	RDFILIAART	VNLLGOSSLR	GLORGWEALK
96BWM01_5	FLALAWDDLR	SLCLFCYHRL	RDFILVTARA	VELLGRSSLK	GLORGWETT.K
96BWM03_2	FLALAWDDLR	SLCLFSYHRL	RDFLLVTVRA	AELLGRSSLR	GLORGWEALK
98BWMC12_2	FLAIAWDDLR	SLCLFSYHRL	RDFILIAARA	VELLGRSSLR	GLORGWEALK
98BWMC13_4	FLALAWDDLR	NLCLFCYHRL	RDFILVTARA	VELLGRSSLT	GLQRGWEILK
98BWMC14_a	LLALAWDDLR	SVRLFSYHQL	RNFILIVARA	VELLGR	RGWETLK
98BWM014_1	FLALFWDDLR	SLCLFSYHRL	RDLILIAVRA	VELLGRSSLW	GLQKGWEALK
98BWM018_d	FLALAWDDLR	SLCLFSYHRL	RDFILIAARA	VELLGHSILR	GLQRGWEILK
98BWM036_a	FLALAWDDLR	SLCLFSYHRL	RDFILVTARV	VELMGRSSLK	GLQRVWEILK
98BWM037_d	FLALAWDDLR	SLCLFSYHQL	RDFILLIARV	VERLGYSSLR	GLQRGWEALK
99BW3932_1	FFSLAWDDLR	SLCLFSYHRL	RDLILVTVRV	VELMGRCSLR	GLQRGWEALK
99BW4642_4	FLALAWDDLR	SLCLFSCHRL	RDCILIAVRA	VELLGRSSLK	GLQRGWEALK
99BW4745_8	FLALAWDDLR	SLCLFSYHHL	RDFILVTARA	VELLGRSSLR	GLQRVWEALK
99BW4754_7	FLATAMDDLR	SLCLFSYHRL	RDFILIATRA	VELLGRSSLK	GLQRGWEILK
99BWMC16_8	FLATAWEDLE	SLCLFSYHRL	RDLTLIVTRA	VELLGRSSLK	GLQRGWEALK
A2_CD_97CD	THALAWDDL T	SLCLESYHRL	RDCILIAARI	VELVGHSSLK	GLRLGWEGLK
A2_CY_94CY A2D 97KR	FEADAWDDLR	SLCLFSYHRL	RDCILIAART	VELLGHCSLK	GLRLGWEGLK
	ETATAMEDER	SLCLFSYHRL	RDCISIAART	VELLGHSSLK	GLRLGWEGLK
A2G_CD_97C	THANAMADDIK	SUCLIFCYHRL	RDSILIAART	VELLRHSSLK	GLRLGWEGLK
A_BY_97BL0 A_KE_Q23_A	ETIMUMYDDIX	SLCLFSYHRL	RDFISIAART	XELLKRSSLX	GLRLXXXGLK
	ETATAWDDLR	SLCLFSYHRL	RDFILIAART	VELLGHSSLK	GLRLGWEGIK
A_SE_SE659 A SE SE725	ELYLYMUDDEK	STCTL23AHHT	RDLILIAART	VELLGHSSLK	GLRLGWEGLK
A_SE_SE723 A SE SE753	EI'AI'YMDDT 2	STICT BOTTOM	RHFILIATTT	VELLGHSSLK	GLRLGWEGLK
05_56/55	THENDUK	PUCTESTHE	RDLILIAART	∧ ₽ T T GHSS T K	GLRLGWEGLK

A_SE_SE853	ET.AT.AWDDT.D	CLCI POVIMI	DDDTT		
A_SE_SE853 A SE SE889	LTATIAMOUTH	SUCLIFICATION	RDFILIAART	VELLGQR	GWEGLK
A SE UGSE8	EL YL YMDDI'N	SPCPLCAKKP	RDFILIVART	VELLGHSSLR	GLRLGWEGLK
A_SE_UGSE8 A UG 92UG0	FLALAWDDLR	SLCRESYHRL M. C. ECHEN	RDFISIATRI	VELLG	QGLK
	LUALIAMDULD	MLCLFSYHRL	RDFILIAART	VELPGHSSLK	GLRLGWEGLK
A_UG_U455_ AC IN 2130	EL VI EMDDID	NLCLESYHRL	RDFALIVARA	VELLGRSSLK	GLRLGWEGLK
~ -	FLATAMODIA	SECTION	RDFILIAKRT	VELLGHSSLK	GLRLGWEGLK
AC_RW_92RW	FLATAMODER	SLCLFSYHRL	RDLLLIAART	VELLGRSSLR	GLQRGWETLK
AC_SE_SE94	FLALAWDDLR	SLCLFSYHRL	RDFILI	LG.HSSLK	GLRLGWEGLK
ACD_SE_SE8	FLALAWDDLR	SLCLFSYHRL	RDLILIAARI	VELLGRR	GWEAIK
ACG_BE_VI1	FFALAWDDLR	SLCIFLYHHL	RDLLLIATRA	VELLG	QRGWEALK
AD_SE_SE69	FSALIWDDLR	NLCLFSYHRL	RDLLLIALRI	VELLGRR	GWEALK
AD_SE_SE71	FLATAWDDLR	SLCLFSYHRL	RDLILIAARI	VELLGRR	GWEALK
ADHK_NO_97	LT5TAMEDTK	NLCLFSYRLL	RDLLLILART	VTLLGSR	GWETLK
ADK_CD_MAL	FSALIWDDLR	NLCLFSYHRL	RDLLLIATRI	VELLGRR	GWEALK
AG_BE_VI11	F.T.T.VMDDPK	SLCLFSYHRL	RDLVLIAART	LELLGRSGLR	GLRLGWEGLK
AG_NG_92NG	FLALAWDDLR	NLCLFSYHRL	RDLVLIAART	AELLRRSSLQ	GLRLGWEGLK
AGHU_GA_VI	FLPLIMEDLE	NLCLFSYRHL	RDLLLIVART	VELLGKR	GWGALK
AGU_CD_Z32	FLPLAWDDLR	SLCLFCYHRL	RDCALIAARI	VETLIRR	GWETLK
AJ_BW_BW21	FLALAWEDLR	NLCLFSCHRL	RDFALIAART	VDTLGRR	GWEILK
B_AU_VH_AF	FLATIWDDLR	SLCLFSYHRL	RDLLLIAARI	VELLGRR	GWEALK
B_CN_RL42_	FLSLIWEDLR	SLCLFSYHRL	RDLLLIVARI	VELLGRR	GWEVLR
B_DE_D31_U	FLALIWDDLS	SLCLFLYHRL	RDLLLIAARI	VELLGRR	GWEVLK
B_DE_HAN_U	FLALFWDDLR	SLCLFSYRRL	RDLLLIVAKI	VETLGER	GWEVT.K
B_FR_HXB2_	SLALIWDDLR	SLCLFSYHRL	RDLLLIVTRI	VELLGRR	GWEALK
B_GA_OYI	FLALIWDDLR	SLCLFSYHRL	RDLILIVARI	VELLGRR	GWEVIT.K
B_GB_CAM1_	FLALIWDDLR	SLCLFSYHRL	RDLLLIVART	VELTCPP	CWENT.
B_GB_GB8_C	FLALFWDDLR	SLCLFSYHRL	RDLLLIVTRI	VGLLGRR	GWENTK
B_GB_MANC_	FLALVWDDLR	SLCLFSYHRL	RDLLSIAARI	VELLGRR	GWRTIK
B_KR_WK_AF	FLTLIWVDLR	SLCLFSYHLL	RDLLLIVTRS	VELLGLR	GWETTK
B_NL_3202A	FLALIWDDLR	SLCLFSYHRL	RDLLLIVTRI	VELLGRR	GWEVI.K
B_TW_TWCYS	FLAIIWVDLR	SLCLFSYHRL	RDLLLIVTRI	VELLGRR	GWEALK
B_US_BC_L0	FLALFWDDLR	SLCLFSYHRL	RDLILVVTRT	VELLGPP	CWENTY
B_US_DH123	FLAIIWVDLR	TLFLFSYHRL	RDLLLIVTRI	VELLGRR	GWELLK
B_US_JRCSF	FLALIWVDLR	SLFLFSYHRL	RDLLLTVTRI	VELLGRR	GWETIK
B_US_MNCG_	FLAIIWVDLR	SLFLFSYH.H	RDLLLIAARI	VELLGRR	GWEYT.K
B_US_P896_	FLALFWVDLR	NLCLFLYHLL	RNLLLIVTRI	VELLGRR	GWEALK
B_US_RF_M1	FLTLIWDDLW	TLCSFSYHRL	RDLLLIVVRI	VELLGRR	GWEALK
B_US_SF2_K	FLALIWEDLR	SLCLFSYRRL	RDLLLIAART	VEILGHR	GWEAT.K
B_US_WEAU1	FLTLIWVDLR	SLCLFLYHRL	IDLLLIAKRI	VELLGRR	
B_US_WR27_	LLALIWDDLR	SLCLFSYHRL	RDLLSIVARI	VELLGRR	GWRTLK
B_US_YU2_M	FLAIIWVDLR	SLCLFSYHRL	RDLLLIVTRI	VELLGRR	CWCVII.V
BF1_BR_93B	FLALVWDDLR	NLCLFSYRHL	RDFILIAARI	VDRGLKR	GWEATK
C_BR_92BR0	FLALAWDDLR	SLCLFSYHRL	RDLILIAARA	VELLGRSSLR	GTORGWETTAK
C_BW_96BW0	FLALVWDDLR	SLCLFSYHRL	RDFILIAARA	AELLGRSSLR	GLOKGWETTIK
C_BW_96BW1	FLALAWDDLR	SLCLFCYHRL	RDFTLVAARA	VELLGRSSLK	GI-ORGWETT.K
C_BW_96BW1	FLALAWDDLR	SLCLFSYHRL	RDSILVAART	VELLGRESTAR	GT-ORGWEAT.K
C_BW_96BW1	FLALAWDDLR	SLCLFSYHRL	RDLILVTARV	VELLGRSSLR	GT.OPGWEAT.K
C_ET_ETH22	R-PATE-MDDP'S	SLCLFSYHRL	RDLILIAART	VELLGRSSLK	GLORGWETTIK
C_IN_93IN1	F-LALAWDDLR	NLCLFSYHRL	RDFISVAARV	VELLGRS	SWEALK
$C_{IN}_{93IN9}$	FLALAWDDLR	NLCLFSYHRL	RDFILVAARV	VELLGRNSLR	GI.ORGWEAT.K
C_IN_93IN9	FLALAWDDLR	SLCLFSYHRL	RDFILVAVRA	VELLGRSSLR	GLORGWEALK
C_IN_94IN1	FLALAWDDLR	SLCLFSYHRL	RDFILVAARV	VELLGHNSLR	GLORGWEALK
C_IN_95IN2	FLALFWDDLR	NLCLFSYHRL	RDFILVAARV	LELLGRRSLR	GT-ORGWEDT.K
CRF01_AE_C	FLSLAWDDLR	SLCLFSYHRL	RDFILIAART	VELLGHSSLK	GI.PPGWEGI.K
CRF01_AE_C	FLALAWDDLR	SLCLFSYHRL	RDFILIAART	VELLGHSSLO	GI.RRRWEGI.K
CRF01_AE_C	RUMINATION	SLCLFSYHRL	RDFILIAART	VELLGHSSLE	GLRRGWEGT.K
CRF01_AE_T	FLSTAMDDLR	SLCLFSYHRL	RDFILIATRT	VELLGHSSLK	GI.RRGWEGT.K
CRF01_AE_T	FLTLAWDDLR	SLCLFSYHRL	RDFILIAART	VELLGRSSLK	GI.PRGWRGT.K
CRF01_AE_T	FLALAWDDLR	SLCLFSYHRL	RDFILIAART	VELLGHSSIK	GI.PRGWEGI.K
CRF01_AE_T	FLALAWDDLR	SLCLFLYHRL	RDFILIAART	VELLGHSSLK	GI.RRGWEGI.K
CRF01_AE_T	FLALAWDDLR	SLCLFSYHRL	RDLTLIAART	VELLGHSSIK	GI.RRGMEGI.K
_ <b>_</b>				CIICIN	AUDUMENAL

CRF01 AE T	FLALAWDDLR	SLCLFLYHRL	RDFILTAART	VELT CHSSLK	GI.DDGWRGI.K
CRF02 AG F	FLALAWDDLR	SLCLFSYHRL	RDFVLTAVRA	VELLGHSSLK	GI.PI.GWEAI.O
CRF02_AG_F	FLALAWDDLR	SLCLFSYHHL	RDFVITAVRA	VELLGHSSLK	GLDI.GWEALV
CRF02 AG G	FLALAWDDLR	NLCLFSYHRL	RDLILIAART	VETLGHR	WOLLK
CRF02 AG N	FLALAWDDLR	SLCLFSYHRL	RDLITTAART	VELLGHNCLK	GI.DI.GWGVI.K
CRF02 AG S	FLALAWDDLR	SLCLFSYHRL	RDFVSTVART	VELT.GHP	CMENTY
CRF02 AG S	FLALAWDDLR	SLCLFLYHRL	RDFVITAART	VELTCHEST.K	GI.DI.GWEALK
CRF03_AB_R	FLALIWDDLR	SLCFFIYHHL	RDITITADRT	WEITGDD	CMEATK
CRF03 AB R	FLALIWDDLR	SLCLFIYHHL	RDIJIJIAART	VELLGRR	CMEATE
CRF04_cpx_	FLPLIWDDLR	NLCLFSYRHL	PMT.T.T.TWAPT	VELLGER	CMEATK
CRF04 cpx	FLPLIWDDLR	NLCLFSYHHL	PNT.T.T.TAAPT	VELLGER	CWEALK
CRF04_cpx_	FLPLVWDDLR	NLCLFSYRQL	PNT.T.T.TVAKT	VELLGIR	CMCGIL
CRF05 DF B	FSALIWDDLR	NLCLFSYHHL	PDT.TT.TVACT	VELUCIA	CMEATIK
CRF05 DF B	LSTLIWDDLR	NLCLFSYHRL	PDI.TI.TAADT	VELLCER	ATRAME
CRF06 cpx	FLALAWDDLR	SLCLFSYHRL	DDECT.TAART	VELLUGRR	GWEALK
CRF06_cpx_	FLATAWDDLR	SLCLFSYHRL	DDEGLIAARI	VEILUGER	GWEILK
CRF06_cpx_	FLATAWDDLR	SLCLFSYHRL	DDEMITARE	VGILGER	GWEILK
CRF06_cpx_	FLATAWEDLE	SLCRFSYHLL	KDL ATTWEET	VEILGRR	GWEILK
CRF11_cpx	G'ICHAMET WILLS	NLCLFSYHRL	DDELL'LADEL	VEILGHR	GWEILK
CRF11_cpx_	FLAT.AWDDLR	NLCLFLYHQL	DDETLIVARI	VEILGHR	GWEILK
D CD 84ZR0	FSALTWODIR	NLCLFSYHRL	DET.TT.TAART	VEILGRR	GWESLK
D_CD_ELI_K	FSALTWOOLR	SLCLFSYHRL	DDITTTAMEL	VELLGRR	GWEALK
D CD NDK M	T.FAT.FWDDI.P	NLCLFSYHRL	DUCTLIANT	VELLGRR	GMDITTK
D UG 94UG1	I.SAI.TWDDI.P	NLCLFSYHRL	RDSILLAARI	VELLGRR	GWEALK
F1 BE VI85	EL'VL'VMUDIT'D	NLCLFSYRHL	KDDITTIMAKI	VELLGRR	GWEAIK
F1 BR 93BR	RI'VI'VAMUUL'B	NLCLFSYRHL	KDETLINADI	VDRGLKK	GWEALK
F1 FI FIN9	G.IGGWALLALIA	NLCLFSYRHL	KDLIDIAAKI	VDRGLKR	GWEALK
F1 FR MP41	FI-SI-WWDDI.D	NLCLFSYRHL	RDFILIAARI	VDRGLRR	GWEALK
F2_CM_MP25	FI.AI.AWDDER	SLCVFSYHCL	KDL TOTAWKI.	VDRGLIR	GWETLK
F2KU_BE VI	FT.AT.AWDDTR	NLCLFSYRHL	WEITITANKI.	VDKGLKR	GWEVLK
G BE DRCBL	G.T.G.T.W.G.T.T.	SLCLFSYHRL	KDDITTAYOR	LERGLEG	SWEILK
G NG 92NG0	FI.AI.AWDDLK	SLCLFSYHRL	KDL THIAAKI	VELLGRNSLK	GLRLGWEALK
G SE SE616	FT.DI.TWDDIR	SLCLFSYHRL	RDDVIITAARI	VELLGRSSLK	GLRLGWEGLK
H_BE_VI991	G.TURWV.TG.TR	NLCLFSYRRL	KDSTRIVAKI	VELLGRSSLK	GLKTGMEGTK
H BE VI997	FI.DIWMDDIR	SLCLFSYRLL	RDDLITVIDE	VELLGRR	GWEALK
H CF 90CF0	FI.DVAMDDIK	SLSLFSYRLL	KDSTPIATEL	VELLGRR	GREALK
J SE SE702	ET.AT.AWDDIR	SLCLFSYHRL	KDDDTTAAKL	VELLGRR	GREALK
J SE SE788	G.T.G.G.WALLAND	NLCLFSYHRL	EDEAT TANDE	VGTLGLR	GWEILK
K_CD_EQTB1	FI.AI.AWDDIK	NLCLFSYRHL	EDITAL TARDE	VGTLGLR	GWEILK
K_CM_MP535	ET.AT.AWDDIK	NLCLFSYRQL	RUDVLIATRI	LDRGLKG	SWEALK
N CM YBF30	ESALVMENTO	NLLIFLYHRL	WINTITITION	LERGLRG	GWEALK
O CM ANT70	FI.DI.I.VTDIA	TIILWTYHLL	IDSPUTPKKI	PEPPGÖSPSK	GLQLLNELRT
O_CM_MVP51	FIGOLVTTI	TIILWTYHLL	CMT.TCCTDD*	TOTALCION	TGOKETTUACK
O SN 99SE	FI.DI.T.VTDIR	TIILWSYHLL	SMITSGIKKT	TOTTGTGTMT	LGQKTIEACR
O SN 99SE	FI.DI.I.VTDIR	TIILWSYHLL	CMTWOGTOTAL	TOURGEGEMI	TGOKTION CE
A CD 83C	ב זרבווודנות	SLCIFSYHRL	DULTI TITIMO	TAUTATATA	LIGUKIISACR
<u></u>	THUNDUNK	PHCTEDIUKT	YATTTAK	···ткк	GWEALK

	001				
00BW0762 1	901	T DI WWAN - o-			950
00BW0768 2	AT CMT 7M AMG	LEI VKONTOT	FDTIAIAVAE	GTDRILEAIQ	950 RICRAICNIP
00BW0874 2	VI.GSI.VOVNG	LEIVERTOL	LUSIAIAVAE	GTDRILEAVO	RICRAICNIP
00BW1471 2	YLGSLGOVWG	DELVES TATE	TOTTALAVAE	GTDRIIELIQ	RICRAIYNIP
00BW1616 2	YLGSLVOYWG	TELKKGAMET COLUMN	FUTIALAVAE	GTDRIIEAVQ	RAVRAILHIP
00BW1686_8	YLGSLIOVWG	TELKKENTET	LOTIALAVAE	GTDRILEVTQ	RICRVIRNIP
00BW1759_3	YLGSLGOVWG	TELKKENTET	LDTIALAVAG	GTDRFIELIQ	RICRVIRNIP
00BW1773 2	Argnivodag	PRI'KKGVIGI	FDAIAIAVAE		TICRAIRNIP
00BW1783 5	YLGTIVOYWV	T.ET.KKCATCI	LDATAITVAG		RTGRAICNIP
00BW1795 6	YLGSLVOYWG	LELKKGATSI	LDTVAIAVAE	<u></u>	RIGRAILSIP
00BW1811 3	YLGSLVOYWG	LELKKSATSI.	LDTIAIAVAE		RGYRAICNIP
00BW1859 5	YLGSLVOYWG	LELKKSATST.	LDTIAIAVAE		RICRAIRNTP
00BW1880_2	YLGSLIQYWG	LELKKSATSL	LDTIALAVAE		RICRAILRIP
00BW1921_1	YLGSLIQYWG	LELKKSATST	LDTIAIATAE		RICRITRNIP
00BW2036_1	YLGSLVQYWG	LELKKSAISL	LDTIAIAVAE	x	RICRVIRNIP
00BW2063_6	YLGSLVQYWG	LELKKSAISL	LNTTAIAVAE		RIGRGIYNIP
00BW2087_2	YLGSLVQYWG	LELRKSASSL	LDTIAIAVAE	<u></u>	RIGRAICNIP
00BW2127_2	YLGNLVLYWG	LELKKSAISL	FDTTAVAVAR	CTDDIT EVITO	IICRAILHIP
00BW2128_3	THOSHAĞIMĞ	TELVESTATE	יא בענענד ב דיויא ו	CTIDD II DI TA	DIDDIDE
00BW2276_7	THOMMADIMO	TETIVISATEL	INTTATATOR	א זמדדמתיים	MT COST
00BW3819_3	THOMPAĞIMG	TUTTVKSATST	TOLIALAMAR	CUDDITERIO	DIEDITOR
00BW3842 <u>8</u>	THOMINGING	TETYVENTER	LIDATATAVOR	CULDITIELLY	DICROTOR
00BW3871_3	THOOTHOTH	DEPLYZSYTYP	LUTTATAVAR	CALICIACION	DICIDATION
00BW3876_9	THIMIGHTMG	PETKKSATSP	INTTATANA	द्रमाभाग स्थापन	DICDITOTE
00BW3886_8	THG9H A GIMG	LELKKSATSL	LDTTATAWAR	こういっしょう マック・スティック・スティー	DICONTERNO
00BW3891_6	THOSHIOTING	PETIKRSATRE	THOTT A TYMA R	דנז זכו ד"ד מרויים	CTCD TTTTT
00BW3970_2	THESTIVE	DELLAKGAISI.	LIDSTATAWAR	CHUDILLYBLY	77 77 7 7 mm -
00BW5031_1	5M TOSTING	TETIVOSATEL	TOTTATAVAR	מתושד ד מתוים	DISDITE
96BW01B21	THOMPHOTING	TELVESATIVE	TID.I.LY LYMYL	CONDUCTION OF	CTCD A TDITES
96BW0407	THOSHIVETMG	TETYVZYTZT	POLLALANAE	<b>CTDDTTDTX</b>	DYCDATORES
96BW0502	THOSPIAČIMO	PETITION	TIDT LY LY ALL	CTODITERIA	DIADIATOR
96BW06_J4	THOPHIQING	TETIVESTIEL	LDTVPTAVDR	CTDDTTECTO	DIGIDATOR
96BW11_06	THOSHIVETMG	TETVVVSWTR	TDJTTATAWAR		DICONTRACTOR
96BW1210	THROTHAGING	TETIVESATE	ים מעומד מדיויכו ו	CULDITATED	Direct a management
96BW15B03 96BW16 26	THOSHAĞIMG	TETIVIZATE	LOSTATAWAR	ではなるようななる	Trima none
96BW17A09	THOSTING	TETYVVDYTNT	TIDILIALVAL	CULDLLDELL	DICONTRACT
96BWMO1_5	THOPHOOTING	CETIVIZATIVE	JOSTATAWAR	CADDLLEAK	73 TT3 TT3
96BWMO3_2	THODHAGTMG	TETVOVENTET	יד בלל בל בל ביו"ו כנו. נ		DIZOD B TRACE
98BWMC12 2	DM TWA FIGURE	TETYVZYTZT	יין על על על על בין הו	COUDDITERRA	OTOD OTTOTO
98BWMC13 4	YI.GSI.VOVWG	TELVACATOR	LOTTAIAVAE	GTDRITEIVL	RICRAICNVR
98BWMC14 a	YLGNT.TOYWG	TEDUVENTED	LDTTALAVAE	GTDRIELLQ	RIGRAIRNTP
98BWM014 1	YLGNLVOYWG	LKLKKSAINI	TOTTALANAE	GTDRITELIO	RVCRAILNIP
98BWM018_d	YLGSLVOYWG	LELKKSAISI.	TDTTATATA	GTDRIIELIQ GTDRIIELVQ	IICRAIRNIP
98BWM036_a	YLGSLVOYWG	LELKKSATSI.	TOTIATAVAE	GIDRITELIQ	RICRGVLNIP
98BWM037_d	YLGNLVQYWG	LELKKSATST	TOTIATATAE	GTDRITELIQ	RICRAIYNIP
99BW3932_1	YLGSLVQYWG	LELKKSATST.	T.DATAVAE	GTDRILEIIQ	RICRAIRNLP
99BW4642_4	YLGSLVQYWC	LELKKSATSL	IDATATAVAR	GTDRILDLIQ	RIFRAICNIP
99BW4745_8	THOOTING	TETIVESHIEL	KUTITATAVAR	מיז זכוד ד מרויים	DICONTRACT
99BW4754_7	THOSTAGIMG	TYTYYSATST	TIDLLALVAL	CTDDTTCT.t.D	DECEMBER
99BWMC16_8	THOUTGOING	TETYVENTGE	TOTTALAVAE	GTDDTTELTO	DUEDATORE
A2_CD_97CD	TIMINITIDATMG	CEPKISAIKP	TOLIAVAVAE	MTDBVTETCO	DACDATOATED
A2_CY_94CY	PMIGHTHUM	KETKNSATZT	FUTIAVAVAR	WTDDUTETCO	DAMMATTATES
A2D97KR	THUMBLE	KETKMSATEL	FNATAIAVAR	WTDPVTFTVO	DACDATTATED
A2G_CD_97C	THILLIAME	CETIVASASAT	TIDILAY LAANAM	<b>がかいりひけて ロススへ</b>	CA CDA TRATES
A_BY_97BL0	TYMININGING	OPPIXERATION	TDTTATAVAX	YTDYUTETOO	DEGENERAL
A_KE_Q23_A	THUMPOTMO	RELIKISAINI	סמעמדמדיוינוע	MODDITTOTAG	D70D3
A_SE_SE659	THUMBUTHE	KETIVISATUL	TOTTATAVAG	איז יים דעוס חידע	777D % D7 777D
A_SE_SE725	THURLING	<b>ろむれいかつせてらた</b>	FULPATAVAG	WTDDGTET.TO	DICDATIATED
A_SE_SE753	ALMNTTTAMG	RELKSSAINL	VDTIAIAVAG	WTDRIIEIGL	RIGRAFLHIP

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A_SE_SE853	XTMNTTAAMI	RELKISAISL	LDTIAIAVAG	WTDRVIELGQ	RLCRAILHIP
A_SE_SE889	ATKNTTSAMG	RELKLSAINL	LDTIAIVIAG	WTDRVIETGO	GECDATEUD
A_SE_UGSE8	ATGNTPTAMI	RELKISAISL	FDTIAIAVAG	WTDRVIETGO	RTGRATI.HTD
A_UG_92UG0	ATGNTTTAMG	RELKISAINL	LDTIAIAVAG	WTDRVIETVO	PLCPATIATE
A_UG_U455_	APMUTPFAMG	RELKISAITL	LDAVAVAVAG	WIDRVIETGO	TTCDATIATE
AC_IN_2130	<b>ATMUTTAAMG</b>	RELKISAIKL	VDTIAIVVAG	WTDRITETGO	GTGDATI.UTD
AC_RW_92RW	<b>APGNPAGAMG</b>	LELKRSAINL	LDTTAIVVAE	GTDRIFTITO	RTSPATVNTD
AC_SE_SE94	<b>XTMNTTTTAMG</b>	RELRISAINL	LDTIAIATAS	WTDRVIELGO	DTCDATLATTD
ACD_SE_SE8	<b>TMMDTPGAMI</b>	QELKNSAINL	FNTIAIAVAE	GTDRVIEIGO	TCDATINTD
ACG_BE_VI1	PPGMTTPAMS	QELKNSAINL	LDTIAIAVAN	WIDRVIETGO	PAGPARIATE
AD_SE_SE69	<b>XTMNTTDGAMI</b>	QELKNSAISL	VDTTAIAVAE	GTDRVTETVO	DAEDAM.DTD
AD_SE_SE71	<b>TIMNDTTÖAMI</b>	QELKISAISL	VDSIAIVVAG	WTDRVIETGO	GTGRATI.HTD
ADHK_NO_97	X TOMPTF X MG	QELKNSAINL	LNTTAIAVAE	GTDRIFTVO	PTCPAVILUTD
ADK_CD_MAL	YLWNLLQYWG	QELKNSAISL	LNTTAIAVAE	CTDRVIETGO	PECDATIUTO
AG_BE_VI11	<b>YLWNLLVYWG</b>	QELKNSAINL	LDTVAIAVAN	WTDRVIETGO	DACDATIATO
AG_NG_92NG	YLWNLLLYWG	RELKNSAINL	IDTIAIAVAN	MADBATEAVO	CACICATINIE
AGHU_GA_VI	YLWNLLLYWG	QELKSSAISL	LDAVAIAVAN	WTDRVIEWO	DVCDATINIP
AGU_CD_Z32	YLGNLVIYWG	OELKNSAINL	LDTVAIAVAD	MADIATERNO	RAGKATIMIA
AJ_BW_BW21	YLGNLALYWG	RELKNSAISL	LDTIAITVAE	ATDETTETAO	RAGRAFINIP
B AU VH AF	YWWNLLQYWS	OELONSAISL	LNATAIAVAE	CALDITETAO	RAFRAILHIP
B CN RL42	YWWNLLOYWI	OELKNSATGL	LNATAIAVAE	GIDKATEANO	RACRAILHIP
B_DE_D31_U	YWWNLLOYWS	OELKNSAVSL	LNATAIAVAE	GIDRVIEVVQ	RAYRAILHIP
B DE HAN U	YWWNLLQYWS	OELKNSAVSI	FNTIAIAVAE	GIDKATEANO	RAWRAILHIP
B FR HXB2		QELKNSAVSL	LWITATAVAE	GTDRVIEVVQ	
B GA OYI	YWWNLLOYWS	QELKNSVISL	T.NIATATAVAE	GTDRVIEVVQ	
B_GB_CAM1_	YWWNLLOYWS	QELRNSAVSL	TIMITATAVAE	GTDRVIEIVQ	RAYRAFLNIP
B_GB_GB8_C	YWWNLLOYWT	QELKNSAISL	TATTATAVAE	GTDRVIEVVQ	RACRAILHIP
B GB MANC	YWWNLLOYWS	QVLKNSAVSL		GTDRVIEVVQ	
B KR WK AF	YLWNLLOYWS	QELKNSAVSL	TWATETEME	GTDRIIEVVQ	
B NL 3202A	YWWNT LOYWS.	QELKNSAVSL	TWATENATATION	GTDRIIEILQ	
B TW TWCYS	ALMMITOAML	QELKNSAVSL	TWATATAVAE	GTDRVIEVVQ	
B_US BC LO	YWWSLLQYWS		LNVTAIAVAE	GTDRVIEVVQ	
B US DH123		QELKNSAVSL	TWATTANA	GTDRVIEVVQ	
B US JRCSF	YWWNLLOYWS	QELKNSAVSL	TWATATAVGE	GTDRIIEILQ	
B_US_MNCG_	YWWNT.T.OVWS	QELKSSAVSL	TMATATAVAE	GTDRIIEVVQ	
B US P896	YWWNT.T.OYWS	OET KNIGAVST	TWATATACAE	GTDRVIEVLQ	RAGRAILHIP
B US RF M1	YWWNTILOYWS	OEI KNGVAGI	LNATAIAVAE	GTDRVIKIVQ	RACRAIRNIP
B_US_SF2_K	YWWST.T.OVWT	OFT.KNIGAVOU	LNTTAIAVAE	GIDRITEVAQ	RILRAFLHIP
B US WEAU1		MCAMONATER	LNATAIAVTE	GIDKATEANÓ	RAYRAILHIH
B_US WR27		OFT DNG A TGT	TATAMATATATA	·····	
B US YU2 M	YWWNT.T.OVWT	OLI MIGNITOL	LNATAIAVAE	GIDRVIEVGQ	RIFRAILHIP
BF1_BR_93B	T.T.GNT. AT. VWG	OFT.WIGHTOT	LNATAIAVAE	GIDRVIEILQ	RAFRAVLHIP
C_BR 92BR0	YI,GGI,VOVWS	LELKKCATOL	LNTTAIVVAE	GIDRVIEALQ	RAGRAVLNVP
C_BW_96BW0	FI.GST.VOVWG	TELVESAISE	FDTIAIAVAE	GTDRIIEVIQ	GIWRAICNIP
C BW 96BW1	VI.GST.VOVWG	T.ET.KWCMICT	LDTTAIAVAE	GIDRIIEIAQ	RICRAICNIP
C_BW_96BW1	VI.GSI.VOVWG	TELVACATOR	LDTTAIAIAE	GTDRIIELIQ	RIGRAIRNTP
C BW 96BW1	VI.GGI.VQIWG	TELVENATEL	LDTIAIAVAE	GTDRIIELTQ	RVFRAIRNIP
C_ET_ETH22	VICELVOVWC	TEL KKON TAT	LDSIAIAVAE	GTDRIIEVIQ	RIYRAFCNIP
C_IN 93IN1	VI.GGI.VOVVG	TELVEGATOR	LNTTAIVVGE	GTDRFIELIQ	RIWRAFCNIP
C IN 93IN9	ATCGTAOAMG	LELKKSAISL	FDSIAIVVAE	GTDRIIELVQ	GFCRAIRNIP
C_IN_931N9	AT GET AOMIG	TELKESAISL	LDIIAIAVAE	GTDRIIELIQ	RTCRAIRNIP
C_IN_94IN1	YI CEI VOVMO	TELKKSAISL	LDFTAIAVAE	GTDRIIELVL	RICRAIRNIP
	AT GOT TO THE	THE KKOT THE	LDIIAIAVAE	GTDRIIEIIQ	GTCRAIRNIP
C_IN_95IN2	TUGSTAĞAMĞ	TETKKSAINI	LDRIAIAVAE	GTDRILELVO	RICDATRNITO
CRF01_AE_C	THOMPHSAMG	QELKISAITL	FDAIAVAVAG	WTDRVTEVVO	PAWDAT.THTD
CRF01_AE_C	XTGNTT2XMA	QELRISAITL	LDATAITVAG	WTDRVTRTVO	THE STREET
CRF01_AE_C	TUGSTUSTAG	QELKTSAITL	LDATAITVAG	WTDRAIETAO	PACPATI.HTD
CRF01_AE_T	FIGNITIONS	<b>GELKISAISP</b>	LNTTAIAVAG	WTDRVTEVAO	CAWPATI.HTD
CRF01_AE_T	<b>ATGMTTTTAMG</b>	QELKISAISL	LDATAIAVAG	MTDRVTEVAO	CAWDATI.UTD
CRF01_AE_T	TUGNTITITANG	GRPKISAISF	FDALAVVVAG	OVALEANOULM	CAMDATLUTD
CRF01_AE_T	まいらないけいだんめご	QELKISAISL	LDATATAVAG	WTDDUTKUMO	DAMDATIUTA
CRF01_AE_T	TUGNTTTAMG	QELKISAISL	LDATAIAAAG	WTDRVIEVAQ	GAWRAILHIP

CRF01_AE_T	YLWNLLVYWG	QELKISVISL	LNATAIVVAG	WTDRVIEVAQ	GAWRAILHIP
CRF02_AG_F	YLGNLLLYWG	QELKNSAINL	LDTIALAVAN	WTDRVIEIGQ	RVGRAILNIP
CRF02_AG_F	YLGNLLTYWG	QELKNSAINL	LDTIAIAVAN	WTDRVIEIGQ	RVGRAIRNIP
CRF02_AG_G	YLGNLAQYWG	LELKNSAISL	LNTTAIVVAE	QTDRLLEFLQ	RAGRAILHIP
CRF02_AG_N	YLWNLISYWV	QELKNSAINL	LNTIAIVVAN	WTDRAIEIGQ	RVGRAIRNIP
CRF02_AG_S	YLWNLLSYWG	QELKNSAISL	LDTIAIVVAN	WTDRVIELVQ	RAGRAILNIP
CRF02_AG_S	HLWNLLSYWG	QELKNSAINL	LDTTAVAVAN	WTDRVIEIVQ	RTGRAICNIP
CRF03_AB_R	YWWNLLQYWI	QELKSSAINL	IGTIAIAVAG	WTDRVIEIGQ	RFCRAMRNIP
CRF03_AB_R	YWWNLLQYWI	QELKSSAINL	INTIAIAVAG	WTDRVIEIGQ	RFCRAIRNIP
CRF04_cpx_	YLWNFLLYWG			GTDRIIEAVQ	
CRF04_cpx_	YLWNLLLYWG			GTDRILEAVQ	
CRF04_cpx_	ATMNTTTAMG	QEIRSSAISL	LDTTAVAVAE	GTDRIIEAVQ	RICRAILNIP
CRF05_DF_B	YLWSLPQYWS			GTDRVIEALQ	
CRF05_DF_B	YLWSLLQYWS			GTDRILEALQ	
CRF06_cpx_	YLGNLICYWG			WTDRVAEVVQ	
CRF06_cpx_	YLGSLVWYWG			GTDRVIEIVQ	
CRF06_cpx_	YLWNLVCYWG	QELKNSAISL	IDTTAIAVAN	WTDRVIEVVQ	RAFRAVLNIP
CRF06_cpx_	YLGNLVCYWG	QELKNSAISL	LDTTAIAVAN	WTDRVIEIVQ	RVFRAFLNVP
CRF11_cpx_	YLGNLTQYWG	QELKNSAINL	LNTTAIAVAE	GTDRIIEIVQ	RVLRGILHIP
CRF11_cpx_	YLGNLAQYWG	QELKSSAISL	LNATAIAVAE	GTDRIIEVAH	RALRAILNIP
D_CD_84ZR0	YLWNLLQYWS			GTDRIIDIVR	
D_CD_ELI_K	YLWNLLQYWS	QELRNSASSL	FDAIAIAVAE	GTDRVIEIIQ	RACRAVLNIP
D_CD_NDK_M	YLWNLLQYWS			RTDRVIEVVQ	
D_UG_94UG1	ALMNTTÖAMI	QELKNSAVSL	FNTIAIAVAE	GTDRAIELVQ	RAVRAILNIP
F1_BE_VI85	YLGNLTRYWS	QELKNSAISL	FNTTAIVVAE	GTDRIIEVLQ	RAGRAVLNIP
F1_BR_93BR	YLGNLTQYWG	QELKNSAISL	LNATAIAVAE	WTDRVIEALQ	RAGRAILNIP
F1_FI_FIN9	YLGNIIQYWS	QELKNSAISL	FNTTAIVVAE	GTDRVIEALQ	RAVRAVLNIP
F1_FR_MP41	YLWNLAQYWS	QELKNSAISL	LNTTAIVVAE	GTDRVIEVLQ	RAGRAVLNVP
F2_CM_MP25	YLWNLAQYWG	QELKNSAISL	LDRTAIAVAE	GTDRIIEILQ	RAGRAVLNIP
F2KU_BE_VI	YLWSLVQYWG	QELKNSAINL	LNTTAIAVAE	GTDRIIEVFQ	RAGRAVLNIP
G_BE_DRCBL	YLWNLLLYWA	RELKNSAINL	LDTIAIAVAN	WTDRVIEVAQ	RAGRAVLNIP
G_NG_92NG0	YLWNLLLYWG	RELKNSAINL	LDTIAIATAN	GTDRVIEVAQ	RAYRAILNVP
G_SE_SE616	YLWNLLLYWG	RELKNSAISL	LDTVAIAVAN	WTDRVIEVAQ	RACRAILNIP
H_BE_V1991	LLGNLLLYWG			GTDRIIELVQ	
H_BE_VI997	YLWNLLQYWG	QELKNSAINL	LNTTAIVVAE	GTDRIIEIVQ	RAWRAVLHIP
H_CF_90CF0	YLWNLLQYWG	QELKNSAIDL	LNTTAIAVAE	GTDGIIVIVQ	RAWRAILHIP
J_SE_SE702	YLVNLVWYWG			GTDRIIEIAQ	
J_SE_SE788	ATANTAMAMG			GTDRIIEIAQ	
K_CD_EQTB1	YLWNLILYWG	QEIKNSAINL	LNTTAIAVAE	GTDRIIEIVY	RAFRALLHIP
K_CM_MP535	YLWNLVQYWS	QELKNSAISL	LNTTAIAVAG	GTDRIIEIGQ	RAFRALLHIP
N_CM_YBF30	HLWGILAYWG	KELRDSAISL	LNTTAIVVAE	GTDRIIELAQ	RIGRGILHIP
O_CM_ANT70	ICAAVTQYWL	QELQNSATSL	LDTLAVAVAN	WTDGIIAGIQ	RIGTGIRNIP
O_CM_MVP51	LCGAVMQYWL	QELKNSATNL	LDTIAVSVAN	WTDGIILGLQ	RIGQGFLHIP
O_SN_99SE_	LCIAVIQYWL	QELQNSATSL	LDTIAVAVAN	WTVTIILGIQ	RIGRGILNIP
O_SN_99SE_	ICIAVIQYWL	QELQNSATSL	LDTLAVAVAN	WTDGIILGLQ	RIGRGILNIP
n_cd83c	YLGNLVLYWG	QELKNSAISL	LNATAIVVAE	GTDRIIEVGQ	RICRAILNIP

	951 962
00BW0762	1 RRIRQGFEAA LO
00BW0768	2 RRIROGFEAA LO
00BW0874	2 RRIRQGFEAA LO
00BW1471 :	2 RRIEQTFEPP LI
00BW1616	RRIRQGVEAA LO
00BW1686	RRIROGFETA LL
00BW1759 3	
00BW1773 2	
00BW1783 5	
00BW1795 6	·
00BW1811 3	
00BW1859 5	<b></b>
00BW1880 2	THE PART OF THE PER
00BW1921 1	MD = 2 - 10
00BW2036_1	TOTAL TIO
00BW2063 6	~
	THE TAKE THE
	RRIROGFEVA LL
<b>-</b>	TRIROGFEAA LL
	SSIRQGFEAA LQ
00BW2276_7	RRIRQGFEAA LL
00BW3819_3	TRIRQGFEAA LL
00BW3842_8	RRIRQGFEAA LQ
00BW3871_3	RRLRQGFEAA LL
00BW3876_9	RRIRQGFEAA LL
00BW3886_8	RRIRQGFEAA LL
00BW3891_6	TRIRQGFEAA LQ
00BW3970_2	RRIRQGFEAS LL
00BW5031_1	RRIRQGFEAA LQ
96BW01B21	RRIRQGFEAA LQ
96BW0407	TRIRQGFEAA LQ
96BW0502	RRIRQGFEAA LQ
96BW06_J4	RRIRQGFEAA LL
96BW11 <u>0</u> 6	RRIRQGFETA LL
96BW1210	RRIRQGFEAA LQ
96BW15B03	RRVRQGFEAA LQ
96BW16_26	RRLRQGFEAA LQ
96BW17A09	TRIRQGLEAA LQ
96BWMO1_5	RRIRQGFEAA LL
96BWM03_2	RRIRQGFEAA LL
98BWMC12 2	GFEAA LQ
98BWMC13 4	RRIRQGFETA LL
98BWMC14 a	RRVRQGFEAA LQ
98BWM014 1	TRIRQGLEAA LL
98BWM018 d	RRIRQGFEAA LQ
98BWM036 a	TRIROGFEAA LL
98BWM037 d	RRIROGFEAA LL
99BW3932 1	RRIROGFETA LL
99BW4642 4	DD7D4
99BW4745 8	
99BW4754 7	
99BWMC16 8	DDTDAGG
A2_CD_97CD	DD
A2_CY_94CY	RRIROGLERA LL
A2D 97KR	RRIROGLERA LL
A2G_CD_97C	RRIROGLERA LL
A_BY_97BL0	RRIROGLERA LL
	RRIRXGAEKA LQ
	VRIROGLERA LL
	RRIROGFERA LL
	RRIROGFEEA LL
A_SE_SE753	RRIRQGFERA LL

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A_SE_SE853 VRIRQGFERA LL
A_SE_SE889 RRSKQGLKRA LQ
A SE UGSE8 RRIRQGFER. ..
A UG 92UGO RRIRQGFERA LL
A UG U455 RRIRQGLERA LL
AC IN 2130 RRIRQGLERA LL
AC RW 92RW SRIRQGFEAA LQ
AC SE SE94 RRIRQGFERA LL
ACD SE SE8 RRIRQGLERA LL
ACG BE VII RRIRQGFERA LL
AD SE SE69 ADIDOGLERA LL
AD_SE_SE69 ARIRQGLERV LL
AD_SE_SE71 RRIRQGLERA LL
ADHK NO_97 RRIRQGFERX LL
ADK_CD_MAL RRIRQGFERA LL
AG_BE_VI11 RRIRQGLERA LL
AG_NG_92NG RRIRQGLERA LL
AGHU GA VI RRIRQGLERA LI
AGU CD Z32 RRIRQGLERA LL
 AJ BW BW21 VRIRQGFERA LL
 B AU VH AF RRIRQGLERL LL
B_CN_RL42_ TRIRQGLERA LL
B_DE_D31_U VRIRQGLERA LL
 B DE HAN U RRVRQGLERA LL
 B_FR_HXB2_ RRIRQGLERI LL
 B_GA_OYI__ RRIRQGLERA LL
 B GB CAM1 RRIRQGLERL LL
 B GB GB8 C TRIRQGLERA LQ
 B_GB_MANC_ VRIRQGLERA LL
B_KR_WK_AF RRIRQGLERA LL
 B NL 3202A VRIRQGLERA LL
 B TW TWCYS TRIRQGLERA LL
 B US BC LO RRIRQGLERL LL
 B US DH123 TRIRQGLERA LL
 B US JRCSF TRIRQGLERA LL
 B_US_MNCG_ TRIRQGLERA LL
              TRIRQGLERA LL
 B US P896
 B US RF M1 RRIRQGLERA LL
 B_US_SF2_K RRIRQGLERL LL
 B US WEAU1 .......
 B_US_WR27_ RRIRQGLERV LL
 B_US_YU2_M VRIRQGLERA LL
 BF1_BR_93B RRIRQGLERA LL
 C_BR_92BR0 RRIRQGFEAA LQ
 C_BW_96BW0 TRIRQGFEAA LQ
 C BW 96BW1 RRIRQGFETA LL
 C BW 96BW1 RRIROGFEAA LO
 C BW 96BW1 RRVRQGFEAA LQ
  C ET ETH22 RRIRQGLEAA LQ
  C IN 93IN1 TRIRQGFEAA LQ
  C IN 93 IN9 RRIRQGFEAV LQ
  C IN 93IN9 TRIRQGFEIA LQ
  C_IN_94IN1 RRIRQGLEAA LQ
  C IN 95IN2 RRIROGFEAA LQ
  CRF01 AE C RRIRQGLERA LL
  CRF01_AB_C RRIRQGLERA LL
CRF01_AB_C RRIRQGLERA LL
CRF01_AB_T RRIRQGLERA LL
CRF01_AB_T RRIRQGLERA LL
  CRF01_AE_T RRIRQGLERA LL
  CRF01_AE_T RRIRQGLERA LL
  CRF01 AE_T RRIRQGLERT LL
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CRF01 AE T RRIRQGLERA LL
 CRF01_AE_T RRIRQGLERA LL
CRF02_AG_F RRIRQGLERA LL
CRF02_AG_G RRIRQGFERA LL
CRF02_AG_N RRIRQGFERA LL
CRF02_AG_S RRIRQGFERA LL
CRF02_AG_S RRIRQGFERA LL
CRF02_AG_S RRIRQGLERA LQ
CRF03_AB_R RRIRQGAEKA LQ
CRF03_AB_R RRIRQGAEKA LQ
CRF03_AB_R RRIRQGAEKA LQ
CRF03_AB_R RRIRQGAEKA LQ
 CRF04_cpx_ RRIRQGLERA LL
 CRF04_cpx_ RRIRQGFEKA LL
 CRF04_CPX_ RRIRQGLERA LL CRF05_DF_B RRIRQGLERA LL
 CRF05_DF_B RRIRQGLERA LL
 CRF06_cpx_ RRIRQGFERA LL
 CRF06_cpx_ TRIRQGFERA LL
 CRF06_cpx_ RRIRQGAERA LI
 CRF06_cpx_ RRIRQGFERA LL
 CRF11_cpx_ RRIRQGLERA LL
 CRF11_Cpx_ RRIRQGFERA LL
D_CD_84ZR0 TRIRQGLERA LL
 D_CD_ELI_K RRIRQGLERS LL
 D_CD_NDK M RRIRQGLERL LL
 D_UG_94UG1 VRIRQGLERA LL
 F1_BE_VI85 RRIRQGAERA LL
 F1_BR_93BR RRIROGLERA LL
 F1_FI_FIN9 RRIRQRVERA LI
 F1_FR_MP41 RRIRQGLERS LL
F2 CM MP25 RRIRQGLERA LL
F2KU_BE_VI RRIRQGFERA LL
G BE DRCBL RRIRQGLERA LL
G_NG_92NG0 TRIRQGLERA LL
G SE SE616 TRIRQGLERA LL
H BE VI991 RRIRQGFERA LL
H BE VI997 RRIRQGLERI LL
H CF 90CF0 RRIRQGFERS LL
J_SE_SE702 RRIRQGLERA LL
J_SE_SE788 RRIRQGLERA LL
K_CD_EQTB1 RRIRQGFERL LL
K CM MP535 RRIRQGLERA LL
N_CM_YBF30 RRIRQGLERA LI
O CM ANT70 RRIRQGLERS LL
O_CM_MVP51 RRIRQGAERI LV
O_SN_99SE_ RRIRQGLERS LL
O_SN_99SE
              RRIRQGLERA LL
U_CD__83C RRIROGFERA LL
```

Table 13. HIV Nef Sequence Alignment GCG Multiple Sequence File. Written by Omiga 1.1

Name:	00BW0762_1	Len:	232	Check:	3461	Weight:	1.00
Name:	00BW0768_2	Len:	232	Check:	5650	Weight:	1.00
Name:	00BW0874_2	Len:	232	Check:	3483	Weight:	1.00
Name:	00BW1471_2	Len:	232	Check:	9491	Weight:	1.00
Name:	00BW1616_2	Len:	232	Check:	1504	Weight:	1.00
Name:	00BW1686_8	Len:	232	Check:	1380	Weight:	1.00
Name:	00BW1759_3	Len:	232	Check:	5319	Weight:	1.00
Name:	00BW1773_2	Len:	232	Check:	156	Weight:	1.00
Name:	00BW1783_5	Len:	232	Check:	8063	Weight:	1.00
Name:	00BW1795_6	Len:	232	Check:	3123	Weight:	1.00
Name:	00BW1811_3	Len:	232	Check:	4460	Weight:	1.00
Name:	00BW1859_5	Len:	232	Check:	9116	Weight:	1.00
Name:	00BW1880_2	Len:	232	Check:	4302	. —	1.00
Name:	00BW1921_1	Len:	232	Check:	2737	Weight:	1.00
Name:	00BW2036 1	Len:	232	Check:	4558		1.00
Name:	00BW2063_6	Len:	232	Check:	1020		1.00
Name:	00BW2087_2	Len:	232	Check:	7532		1.00
Name:	00BW2127 2	Len:	232	Check:	3425	. —	1.00
Name:	00BW2128 3	Len:	232	Check:	5136	_	1.00
Name:	00BW2276 7	Len:	232	Check:	3623	Weight:	1.00
Name:	00BW3819 3	Len:	232	Check:	993	Weight:	1.00
Name:	00BW3842 8	Len:	2.32	Check:	603,0	-	1.00
Name:	00BW3871 3	Len:	232	Check:	3547		1.00
Name:	00BW3876 9	Len:	232	Check:	1951	. —	1.00
Name:	00BW3886_8	Len:	232	Check:	3786		1.00
Name:	00BW3891 6	Len:	232	Check:	3655		1.00
Name:	00BW3970 2	Len:	232	Check:	8913	_	1.00
Name:	00BW5031 1	Len:	232	Check:	2223		1.00
Name:	96BW01B21	Len:	232	Check:	2176	. –	1.00
Name:	96BW0407	Len:	232	Check:			1.00
Name:	96BW0502	Len:	232	Check:	333	Weight:	1.00
Name:	96BW06 J4	Len:	232	Check:	5784		1.00
Name:	96BW11 06	Len:	232	Check:			1.00
Name:	96BW1210	Len:	232	Check:			1.00
Name:	96BW15B03	Len:	232	Check:			1.00
Name:	96BW16_26	Len:	232	Check:	3957		1.00
Name:	96BW17A09	Len:	232	Check:	1945		1.00
Name:	96BWM01 5	Len:	232	Check:		_	1.00
Name:	96BWM03 2	Len:	232	Check:		. –	1.00
Name:	98BWMC12_2	Len:	232	Check:	2423	. –	1.00
Name:	98BWMC13 4	Len:	232	Check:	4043		1.00
Name:	98BWMC14_a	Len:	232	Check:	3568		1.00
	98BWM014 1	Len:	232	Check:			1.00
	98BWM018 d	Len:	232	Check:		_	1.00
	98BWMO36_a	Len:	232	Check:			1.00
	98BWM037 d	Len:	232	Check:		_	1.00
Name:	99BW3932 1	Len:	232	Check:		Weight:	1.00
Name:	99BW4642 4	Len:	232	Check:			1.00
Name:	99BW4745 8	Len:	232	Check:		Weight:	1.00
	99BW4754 7	Len:	232	Check:		_	1.00
	99BWMC16 8	Len:	232	Check:			1.00
	A2 CD 97CD	Len:	232	Check:			1.00
	A2_CY_94CY	Len:	232	Check:		_	1.00
	A2D 97KR	Len:	232	Check:			1.00
	A2G CD 97C	Len:	232	Check:			1.00
	A BY 97BL0	Len:	232	Check:			1.00
	A KE Q23	Len:	232	Check:		_	1.00
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Name: A_SE_SE659
Name: A_SE_SE753
Len: 232 Check: 985
Name: A_SE_SE753
Len: 232 Check: 1638
Neight: 1.00
Name: A_SE_SE853
Len: 232 Check: 2503
Name: A_SE_SE853
Len: 232 Check: 2503
Name: A_SE_SE853
Len: 232 Check: 2503
Name: A_SE_SE853
Len: 232 Check: 2503
Name: A_SE_SE853
Len: 232 Check: 2503
Name: A_SE_UGSE8
Len: 232 Check: 2503
Name: A_US_SUG0
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Name: A_US_SUG0
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Name: CRF01 AE T
                       232 Check: 9246 Weight:
                  Len:
                                               50
00BW0762_1 MGGKWSKSS. IVGWPAVRER IR....RTDP ..........AAEGVG
00BW0768_2 MGGKWSKSSI V.GWPEVRER IRR..TEP........AAEGVG
00BW0874_2 MGGKWSKSS. LTGWPAVRER IR....RTEP ............AAEGVG
00BW1471_2 MGGKWSKSS. IVGWPAVKER IRR..TNPR. ...... .TERAAVGVG
00BW1616_2 MGNKWSKSS. IVGWPAVRDR MRR..AEP.......AAEGVG
00BW1686_8 MGGKWSKRS. KADWPAVREK LR....TTEP ..........AAEGVG
00BW1759_3 MGNKWSKS.....WPAVRER IRR..TRPAR ...... GNEPAAEGVG
00BW1773_2 MGSKWSKSSI V.GWPKVRET IRR..TEP.........AAEGVG
00BW1783_5 MGNKWSKS.....WPAIRER IRR..TNPAA ..... ERTRAAEGVG
```

00BW1811 3	MOCIFICION	***			
00BW1859 5	MGGKWSKSC.	KIGWPAVREF	R MRR	• • • • • • • • •	. TEPAVEGVG
	. DCACMADDII	KVGWPEVRER	MRR. TRPAM	RCC	DONATION
00BW1880_2	. GCVGVAPPU	LVGWPAVREF	IRT. TAP.		
00BW1921_1	. CCACHARDON	1 VGWPAVRER	MR. KTEC	•	3 3 7 7 7 7 7
00BW2036_1	MGGKWSKSS.	IVGWPAVRER	IRR		WELL & WILLIAM
00BW2063_6	TOOTHIDYSOT	T.GWPAVRER	MRK AND		77-0
00BW2087_2	LIGOTANOVOO.	TVGWPAVRER	LIRR.T.		DUBBLANDARA
00BW2127_2	MGGKWSKSSI	I.GWPAIRER	IRR TED	• • • • • • • • • •	ALEPAAEGVGAAEGVG
00BW2128_3	MGSKWSKCSI	I.GWPAVRER	TRR AED	•••••	AAEGVG
00BW2276 7	MGSKWSKC	SGWPDVPEP	א ממינה MDD אינוריי.	FACINA	AAEGAAPGVG
00BW3819_3	MGSKWSKCST	V GWDDWGG	MUL ALLAN	BAGRAAL	AAEGAAPGVG
00BW3842 8	MGGKWSKGR	TVCWPDVRDR	MRRARPAV	RERRRQTEPA	AEGVAAEGVG
00BW3871 3	MGSKWSKDS	TVEWDAMER	MRR	• • • • • • • • • •	TEPAAEGVG.
00BW3876 9	MGGKWEKEE	IVEWPAVRER	LRKTEP	••••••	AAEGVG
00BW3886 8	MCCKMEKCO	IVGWPAVRER	IRQTGAR.	• • • • • • • • • •	AAEGVG
00BW3891 6	MCCVWCKCC	IVGWSAVRER	MKRTEP	• • • • • • • • • •	AAEGVG
00BW3970 2	LIGGIONS WS V22.	TAGMETAKEK	MRR. TOP.		A A ECITO
	MOSIUMSICES.	TAGWPAVRER	ממסחיד אאו	Tree	MOO777
00BW5031_1	MGGKWSKSS.	LVGWPEVRDR	מחיים מפן		
96BW01B21	TOCHONDE	V.GWPAVRER	משיי ססד		
96BW0407	MOGKWOYPOT	V.GWPAVRER	MRR.AFD		7 7 77 77 70
96BW0502	Procession	COGMENAKEK	MRRTRPAV	EGR	からら シャ かいけん
96BW06_J4	MGGKWSKSS.	IVGWPAVRER	IRRTDP		שאמנים
96BW11_06	MGGVM2X22T	I.GWPAIRER	IRR. TEPAA	ED to	CARATICITA
96BW1210	MGNKWSKG	WPAVRDR	IRR. TEPAT	v	EPAAEGVG
96BW15B03	MGGKWSKSS.	IVGWPAVRER	TRR	• • • • • • • • •	. TEPAAEGVG
96BW16 26	MGGKWSK	WPAVRER	MDD mp	• • • • • • • • • •	· TEPAAEGVG
96BW17A09	MGXKWSKRS.	TVGWPNTVPEP	TDD TAILT	Tim	EAERAAVGVG
96BWM01 5	MGSKWSKSST	T GWPAVDED	TOWINPUT	EK	EAERAAVGVG TEPAAEGVG
96BWM03 2	MGGKWSKSS	TVGWDAVDER	MDD TDDGA	• • • • • • • • • • • • • • • • • • • •	.TEPAAEGVG
98BWMC12 2	MGSKWSKSS	TTCWDAVAGE	MRR. TRPGA	AE	····GVG
98BWMC13 4	MGGKWSKSS.	TICWPAVRER	MRRTEP	• • • • • • • • • •	AAEGVG
98BWMC14 a	MCCKWeree	TIGWPAVKER	MRR	• • • • • • • • •	.TEPAAEGVG
98BWM014 1	MCCVI CVCV	LVGWPDVRER	IRKPRP	KP	AAEGVG
98BWM018 d	MOORIGIES.	IVGWPAIRER	LR	• • • • • • • • • •	RTEPAAEGVG
98BWM016_d	MODITARION.	TAGMENAKEK	IROTDPRE	RT P	이까만 먼저 저 많으면서
	MOGYMSKSST	V.GWPAVRER	IRR. TEPRR		y ED y y Edita
98BWM037_d	MGGKWSKSS.	IVGWPEVRER	LRRTAP		A A ECITIC
99BW3932_1	MOGVMPVKKT	V.QWPTVRER	LRR. TED		7 TOTAL
99BW4642_4	MGGKWSKSS.	IVGWPAVRER	IRR, TOPAA	EG	170
99BW4745_8	ridsituskst.	TAGWPTVRER	IRO, AFP		A TOTTO
99BW4754_7	MGGKWSKSS.	IVGWANVRER	MRR		mena arrorro
99BWMC16_8	MOMVMOVO	WPAVRER	TRR . TEDAM	מ עע	DMIDAAAA
A2_CD_97CD	MGGKWSKRT.	IVGWPEIRER	MRRTPPAA	FG VD	RIEPAREGVG
A2_CY_94CY	MGGKWSKRS.	IPGWPAIRER	MRRTPPTAQR	TOVK	PTPPAAEGVG
A2D97KR	MGGKWSKRS.	LPGWPATRER	MRRTPPAAER	TD	AVSPAAPGVG
A2G_CD_97C	MGSKWSKSS.	IVGWPAVRAR	IRQTPP.	IP	PAA.AAEGVG
A_BY_97BL0	XXGKWSKSS.	TXXWDOWXED	IRRAPAP	• • • • • • • • • •	AAEGVG
A_KE_Q23	MGGKWSKSS	TVGWDETDED	MDDADD	• • • • • • • • • •	AARXVG
A_SE_SE659	MGGKWSKSS	TVCWPEIRER	MRRAPP	• • • • • • • • •	···.AAPGVG
A SE SE725	MGGKWSKSS.	TUCMDEUDED	MRRAPS	• • • • • • • • • •	AAAPGVG
A_SE_SE753	MGSKWSKSS.	TUCHREVRER	LRQTLAAARG	• • • • • • • • • •	•••• VG
A SE SE853	MCMSKOK.	TAGMERAKEK	TRRADD		3 3
A_SE_SE889	MGGKWSKRS.	KEGWSEVREK	IRQT	• • • • • • • • • • • • • • • • • • • •	PPAAKGVG
	MOOTHISTS.	TAGMEKAKEK	MARTPP		እ <i>እ የረ</i> ርር ነርር
A_SE_UGSE8	MGMKWSK	GWPEVRER	IROARAPAHT		שמעעע מיים D
A_UG_92UG0	INGIAMANSKSC.	IVGWPEVRER	IROTPTAARE	RTR	ON DOWN IN TARGET
A_UG_U455	MOGNASKAS.	KARMBEAKKE	MRETPA	_	7 7 7/01/0
AC_IN_2130	MOGICAL VOS.	VVGWPEVRER	IRRTPA		A A DOLLO
AC_RW_92RW	MOSKWSKCSP	V.GWPAVRER	LRO. TEP.		A A TOOT O
AC_SE_SE94	PROGRADADS.	TIGMPOTKEK	IRRTPP		N N MOTTO
ACD_SE_SE8	MGGKWLKSSI	V.GWPAVRER	IRR. TED	• • • • • • • • • •	AATGVG
ACG_BE_VI1	MGGKWSKRS.	KVEWPOVRER	MRO. TOTAN	FA 57	· · · · AAEGVG
AD_SE_SE69	MGGKWSKSS.	IVGWPAVPRP	TKB 4	₽AEG	AAAEGVG
-	- •		··	• • • • • • • • • •	DPAAEGVG

AD SE SE71	MCCVMOVOO	******			
ADHK NO 97	MCCMMSKSS	. IVGWPEVRER	MRRARAP		SAAPGVG
ADK CD MAL	11001010100	· TAGMENIKEE	מים א ססוא		
AG_BE_VI11	crtunimp	<ul> <li>TARMAKIAND</li> </ul>	המהממחות	~	
AG NG 92NG		* EAGNOKAKK	אמטיוי טעמו	7 130	
AGHU GA VI		· TIGHTAVKKK	כויויו או		
AGU_CD Z32		· TAGMOTIKEK	MKKARD		
AJ_BW_BW21		· · · WPAVKER	מססידי מאו	מס	
B AU VH		2 TIGMPOAKEK	MKR. 2A	א כו	D
B CN RL42		· VOTABIAKEK	IIO. ARDA	יבע א	
B DE D31		· MIEGMESVKKK	י אכולים אוא או	א דוכו	
B_DE_HAN	1-00-01000	• AAGMEWIKEK	MK		
B FR HXB2		COGMETAKEK	MKOARP		
B GA OYI		ATGMETAKEK	MIK		
B GB CAM1	MGGKWSKPS	LCCMCAIRER	MKRAELQ	P PE	RAEPAADRVG PAAEGVG
B_GB_GB8		TOGMODAVKEK	MOR ARD		
B_GB_MANC		THE GMOKAKDK	מידוב ממוא		
B KR WK	MGGKWSKRS	MDCMMMTDED	MKQVDPAI	E EGRK	· · · · · · AAEGVG K QAEPAAEGVG
B NL 3202A		AEGMINITIKKK	MKK. ARDA7	י פים	
B TW TWCYS	MGGKWSKRS	AAGMENTDED	MK	• • • • • • • • • •	RAEPAADGVG
B US BC	MGGKWSKRM	TEGMENTATES	IRQ. AEPA.	• • • • • • • • • • • •	. RAEPAADGVG
B US DH123		HOGWINAVKER	WIR		
B_US_JRCSF	MGGKWSKHS	VDCWSIVRER	MRR. AEPAZ	DR	. RAEPAADGVG
B US MNCG	MGGKWSKR	MANA TOWN TO	MRR. AEPAT	C DRVI	· ··EP.AVGVG R QTEPAAVGVG
B_US_P896	MGGKWSKRR	VTGWPTVRER	MKKAEP	• • • • • • • • • • • • • • • • • • • •	. AELAADGVG
B_US RF	MGGKWSKSK.	AEGWQTIRER MGGWDAVDED	MRKAEPA	· · · · · · · · · · · · · · · · · · ·	EPAADGVG
B_US_SF2	MGGKWSKRS.	MGGWPAVRER MGGWSAIRER	MDD AEPAA	DG	· · · · · · · · VG
B_US_WEAU1	MGGIWSKRS.	GSGWPAIRER	MKD AEDAA	· • • • • • • • • • • • • • • • • • • •	RAEPAADGVG
B_US_WR27	MGGKWSKRS.	VGGWPAIRER	MXAEPAG	EG	· · · · · · · · VG
B_US_YU2	MGGKWSKRS.	MAGWPTVRER	MDD ACIDA	777	RAEPAAEGVG
BF1_BR_93B	MGSKWSKSS.	IVGWPAIRER	IDO TO	ERMF	RAEPAADGVG
C_BR_92BR0	MGNKWSKCST	V.GRPAIRER	MDD VD	• • • • • • • • • •	PAAEGVG
C_BW_96BW0	MGGKWSKSSI	V. GWPAVRER	MDD TED	• • • • • • • • •	AAEGVG
C_BW_96BW1		7 • DMETTKUK	א אכולים ידי אאו	T7	
C_BW_96BW1		· · · WPAVRDR	תולם בחוד או		
C_BW_96BW1		TAGMENAKER	(		
C_ET_ETH22	TOULTEDICOF	A . GMEATKEK	IRR. AAD		
C_IN_93IN1		A - GMENTKEK	мкк джр		
<b>C_IN_93IN9</b>		V · GWPDIKEK I	מאא יייטידי		
C_IN_93IN9		V.GWPAVKER I	מיטיתי טעוע		
C_IN_94IN1					
C_IN_95IN2		A CHEDIKEK I	סאיוי. אאוי		
CRF01_AE_C					
CRF01_AE_C		T AGMEONER	ים תלוכויני נואו		A
CRF01_AE_C		· · · WFUIRER	LKOTDVAT		
CRF01_AE_T		TAGHEOAKEK	אמטטיוי ואו		
CRF01_AE_T		TAGMEDAKEK I	ולולכותי ואו		
CRF01_AE_T CRF01_AE_T		TAGMEOAKEK	ארמכורי ואו		
CRF01_AE_T		· · · WPUVKER I	וגול מסמים וואו		
CRF01_AE_T		TARROAKER I	ידי אם סידי ווא		
		· · · WPRVKER I	אמססידי (א		
CRF02_AG_F CRF02_AG_F		T AGMEVAKEK I	ממידית א		
CRF02_AG_F CRF02 AG G	. under and a second	TAGMENAKEK I	.i.OTPP.		A A MOTTO
CRF02_AG_G CRF02 AG N	······································	TAGMEGAKEK I	ROTPT.		7 7 T/OT TO
CRF02_AG_N CRF02_AG_S		TAGMEKANIKK M	IKOTPT.		מעזטשוע ע
CRF02_AG_S	······································	TAGMEDIKDK T	R. OTPP		מללום מי מי
CRF03 AB R		TAGMEOAKEK T	RRTOPTPS.		AATOUG
CRF03_AB_R		TAGMEGAKEK T	RRAPAP		N N COTTO
CRF04_cpx_	······································	TAGMESTREK T	RRAPAP	_	3 3 5 0110
		TAGNEDTKEN M	מיסאטא אא		
	compage.	LVGWPAIRER M	RRARAEP		QAEPAAAGVG

CRF04 CDX	MONTENORO	ND A LIDER	1000		
CRF04_CDX_	MCCYMEYCC	WPAVKEK	MRRARAEP	A	RAEPAAVGVG
		VVGWPAIRER	MRRTP	••••••	PAAEGVG
CRF05_DF_B	MGGKWSKNR.	IVGWPAIRER	MRRTPPAA	• • • • • • • • • • • • • • • • • • • •	GAAAEGVG
CRF06_cpx_	MGNKWSK	GWSQVRER	MRRTPPTE	R	AAEGVG
CRF06_cpx_ CRF06 cpx	MGSKWSKS.S	TAGMADOLES	IRQTPPTE	G	AAKGVG
CRF06_Cpx_	MGGKWSKS.S	LVGWPQVRER	IRQTPPTE	G	AAEGVG
		IVGWPKVRER	MRQTPPAA	${\tt E}.\dots.{\tt R}$	QTPPAAEGVG
CRF11_cpx_ CRF11 cpx	MGGKWSKS.S	IVGWPEIRER	LRR	T	PPAAAADGVG
D CD 84ZR0	MGGNWSKS.S		LRR		PPTAAAEGVG
D CD ELI	MGGKWSKSS.	IVGWPAIRER	IRKTDPRE	RR	RPEPAADGVG
D CD NDK	MGGKWSKSS.	IVGWPAIRER	IRRT	• • • • • • • • • • • • • • • • • • • •	NPAADGVG
D UG 94UG1	MGGKWSKSS.	LVGWPAIRER	IRKT	•••••	DPAADGVG
F1_BE_VI85	MGGKWSKSS.	IVGWPAVKEK	MRRT	• • • • • • • • • • • • • • • • • • • •	
F1_BE_V183	MGGKWSKSS.			• • • • • • • • • • • • • • • • • • • •	
F1_BR_33BR F1 FI FIN9	MGGKWSKSS.			• • • • • • • • • • • • • • • • • • • •	
F1_F1_F1N9 F1_FR_MP41	MGGKWSKSS.		MRRPP	• • • • • • • • • • •	PAAAEGVG
F2 CM MP25	MGGKWSKSS.	IVGWPAVKEK	MRRTP	• • • • • • • • • • • • • • • • • • • •	PAAEGVG
F2KU BE VI	MGGKWSKSS.	IVGWPAIRER	IRRTP	<u>.</u>	VAAEGVG
G BE DRCBL		GWPSVRER	IRRTPPAA	P	AADGVG
G_NG_92NG0	MGGKWSKRS.	VAGWPEVRER	LRQHPA.	• • • • • • • • • • • • • • • • • • • •	AAEGVG
G SE SE616	MGGKWSKSS.	IVGWPQIRER	IRQTPV.	• • • • • • • • • • • • • • • • • • • •	AAEGVG
H_BE_VI991	MGGKWSKGC.	IVGWPEVKER	IRNTPT.	• • • • • • • • • • • • • • • • • • • •	AAEGVG
H_BE_V1991 H BE V1997		ISGWPAVRER	TRQTEP	• • • • • • • • • • • • • • • • • • • •	AAEGVG
	MCCYMERED	MCCWCETTER	IRRAQP	• • • • • • • • • • • • • • • • • • • •	AADGVG
H_CF_90CF0 J SE SE702	MCMVWCVC	MGGWSTIRER	MRRAEP		VAEGVG
J SE SE788	MCMVWGKG	WPQVRDR	MRRAAP	Ap	AADGVG
K CD EQTB1	MGGKWSKS.S	WPQVKER	MRRAP	A	AADGVG
K_CD_EQIBI	MGGKWSKS.S	IVGWSIVRER	MR		KTPPAADGVG
N CM YBF30	MGKIWSKSS.	IVGWPAIRER	MRRARPAA	$\mathtt{DR}.\dots.\mathtt{v}$	GTQPAADGVG
O CM ANT70	MGNALRKGK.	DOGWARTER	MRRQTQEP	• • • • • • • • • • • • • • • • • • • •	.AVEPAVGAG
O CM MVP51		FACMORITADA	MRRTRTF	p	ESEPCAPGVG
O SN MP129	MCMT.CKDT	FAGWSEVKDR	MRRSSS	D	PQQPCAPGVG
O SN MP130	MCMATCKDK	FKGWSAVRER	MRGTS		DPEPCAPGVG
U CD 83C	MCMKMCKO	FAGWSAVKEK	MRKTS		EPEPCAPGVG
0_CD03C	QXXWXXQ	WPAIRER	MRRARPAA	E	AADGVG
	51				100
00BW0762 1		ΔΤͲΩΩΝΨΌΨΨ	NA A CAMILEA O	EEDEVGF	100
00BW0768 2	AASODIDKYG	ΔΙ.ΤΟΟΝΙΡΙΙ	MAACAWLEAQ	EKEE.E.VGF	PVRPQVPLRP
00BW0874 2	EASODIDKHG	ΔΙ.ΨΩΝΊΑΝΙ	NAACAWLEAQ	EEEGEVGF	PVRPQVPLRP
00BW1471 2	AASODIDKYG	WITTINITE THAN	NADCAWLQAH	EEEGEVGF	PVRPQVPLRP
00BW1616 2	PASODIGREG	ΔΙ.ΤΤΩΝΤΕΑΝ	NADCARLUAQ	EEDNEVGF	PVRPQVPLRP
00BW1686 8	AASODLAKHG	Αυτιονιμών	MADCAMIEAO	EEEG.G.VGF EEEEVGF	PVRPQVPLRP
00BW1759_3	AASODIDKYG	AT.TCCMIAIN	MADCAMIDAQ	EEAE.E.VGF	PVRPQVPLRP
00BW1773 2	AASODIDKYG	ΔΙ.ΤΤΟΟΝΙΡΙΙ	NAACAWLEAQ	EEEG.E.VGF	PVRPQVPLRP
00BW1783 5	AASRDLDKHG	VITISMINING WAR	NADCAWLEAC	EEEE.E.VGF	PVRPQVPLRP
00BW1795 6	AASODLDKYG	ΔΙ.Τ.ΤΟΟΝΙΡΑΙ	NADCAMIEAQ	EEEE.E.VGF EEADDVGF	PVRPQVPVRP
00BW1811_3	AASODLDRIG	ALTISNIAIN  ATTECHNATION	NADCAWLEAC	EEGEEVGF	PVRPQVPLRP
00BW1859 5	AASRDIARHG	ALTOSNIAIN	NADCAWLEAQ	EEGEEVGF EEADEVGS	PVRPQVPLRP
00BW1880 2		TIAIMOOIGH	MAACAWLEAQ	EEADEVGS	PVRPQVPLRP
00BW1921 1	AASRDIDKYG	ΔΙ.ΤΩΩΝΙΤΟΥΙΤ	NDACARLIKEQ	EEEG.E.VGF EKEGGVGF	PVRPQVPVRP
00BW2036_1	AASODLDKHG	VITANMAGGA	MAACAWLEAQ	EEADDVGF	PVRPQVPLRP
00BW2063 6	AASODIDKHG	ALTONNISSI	NDACAWLEAQ	EEADDVGF	PVRPQVPLRP
00BW2087 2	AASODIDKEG	T.TDGMTMIN	MADCAMPEAO	EEEEVGF	PVKPQVPLRP
00BW2127 2	AASODIDKEG	Δ1.TCQTTAGN	MATCAMPOAC	EEEEEVGF	PAKEOABPE
00BW2127_2	AASODI.DKVG	VITE CHIMINE	MANCAMIQAQ	EEES.EGVGF	PVKPQVPLRP
00BW2276_7	AASDULTURES A	VITAGOMINAL VALUE OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART	MAACAWLKAQ	EEEE.E.VGF	PVXTS
00BW3819 3	TASODIARE	VITACOMILE IN	MADCAWLQAQ	EEEE.EEVGF	PVKPQVPLRP
00BW3842_8	AASPULDEDG	VITACONITANIA 2012	MAACAWLQAQ	EEEE.D.VGF	PVRPQVPLRP
00BW3871 3	AASODIDING	THE CAME OF	NADCAWLEAQ	EETEEVGF	PVRPQVPLRP
00BW3876_9	AASODI.DDUG	VI TOOM TAUM	MAACAWLEAQ	EEAE.GEVGF	PVRPQVPLRP
		TADIMOGIUM	MODAWNER	EEEG.E.VGF	PAKEOALPE

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00BW3886_8 AASQDLDKHG ALTSSNTPAN NADCAWLETQ EEAD..EVGF PVRPQVPLRP
 OOBW3891_6
OOBW3970_2
OOBW3970_2
OOBW5031_1
OOBW5031_1
OOBW5031_1
OOBW50031_1
OOSW50031_1
OOSW50031_I
OOSW50031_I
OOSW50031_I
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OOSW50031_I
OOSW50031_I
OOSW5003_INDOOSW50_I
OOSW5003_INDOOSW50_I
OOSW5003_INDOOSW50_I
OOSW5003_
   00BW3891_6 AASQDLDKYG ALTSSNTADT NADCAWLQAQ EEEG.E.VGF PVRPQVPLRP
  98BWMO18_d AASRDLERHG AITTSNTAAN NPACAWLEAQ EEDG.D.VGF PVRPQVPLRP
  98BWMO36_a AASQDLDKHG ALTTSNTASN NADCAWLEAQ EEEE.E.VGF PVKPQVPVRP
98BWMO37_d AASQDLAKHG AITSSNTATT NADCAWLEAQ EEGE..EVGF PVRPQVPLRP
  99BW3932_1 AASQDLANHG ALTTSNTATN NADCAWLQAQ EEEE...VGF PVRPQVPLRP
  99BW4642_4 AASQDLDRHG AITSSNTAAT NADCAWLEAQ EEAD..EVGF PVRPQX...P
  99BW4745_8 AASKDLDKHG ALTSSNTAGT NADCAWLQAQ EEEG.E.VGF PVRPQVPLRP
 99BW4754_7 AASQDLDKYG ALTSSNTAAT NADCARLEAQ EETE..EVGF PVRPQVPLRP
 99BWMC16_8 AASKDLEKHG ALTTSNTVHN NPDCAWLEAQ EEEE.E.VGF PVRPQVPLRP
 A2_CD_97CD AVSQDLARHG AVTSSNTAAN NPDCAWLEAQ EEE...EVGF PVRPQVPLRA
 A2_CY_94CY AVSQDLATHG AVTSSNTAAT NPDCAWVEAQ EEES..EVGF PVRPQVPLRP
 A2D__97KR AVSQDLATRG AVTINNTAAT NADSAWLEAQ EEEE..EVGF PVRPQVPLRP
 A2G_CD_97C AVSQDLARHG AITSSNTAAN NPDCAWLEAQ QEDS..EVGF PVRPQVPLRP
 A_BY_97BL0 PVSQDXDKHG AVTSSNTAAN NADCAXLEAQ X...EXEVGF PVRPQVPLRP
     A_KE_Q23 AVSQDLDKHG AVTSKNINH. .PSYAWLEAQ E...DEDVGF PVRPQVPLRP
 A_SE_SE659 AVSQDLAKHG AVTSSNINN. .PSCVWLEAQ E...EEEVGF PVRPQVPLRP
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AG NG 92NG AAPQDLARHG AITSSNTAQT NPDCAWLEAQ QENS..EVGF PVRQQVPLRP
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     B AU VH AASRDLEKHG AITSSN..IN NADCVWLQAQ EEE...EVGF PVRPQVPLRP
 B_AU_VH AASKDLEARG AITSSN.IN NADCVWLQAQ EEE...EVGF PVKPQVPLKP
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B_GB_GB8					
B_GB_MANC B_KR_WK					
B NL 3202A					
B_NB_3202A B_TW_TWCYS		2 TATIODNIAM		ייייני מודנו ו	<b>5 5 5 5 5 6 7</b>
B US BC					
B US DH123		- ETTOONIAHI	V NAIII'AWI.GAC	) DDD	• <del></del>
B_US_JRCSF					
B US MNCG					
B_US_P896		NATIONAL TAN	L NADCAWGENC	1 222 2324	* *******
B US RF					
B_US_SF2	AVSRDLEKHO	ATTESMIAAN	NAACTWLEAC	EDED.EEVGI	PVRPQVPLRP PVRPQVPLRP
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B_US_YU2	AVSRDLERHO	AITSSNTAAT	NADCAWLEAQ	EEEEVGE	PVRPQVPLRP PVRPQVPLRP
BF1_BR_93B		, 44 TOOM TOWN			·
C_BR_92BR0					
C_BW_96BW0	2	, WELTONIANI		DDDD	<b></b>
C_BW_96BW1					
C_BW_96BW1		, UTTTOMINATION	LNPHCAWLEAO	ייייי מייייים	
C_BW_96BW1	TYGE CENT	AFTSSNTASN	MADCAWI.EXA	DUAD DISCO	
C_ET_ETH22	MADIUDAY	ADISSNIPAN	NPDCDWI.EXA	Dodo o man	
C_IN_93IN1	THEFT	ALISSNIDIT	NADCAWI PAO	PPPC P MOD	D17000000000000000000000000000000000000
C_IN_93IN9	TAY OUT OF THE	ALISSNIDIT	' NPDCAWI.KAO	PPPP P MAR	
C_IN_93IN9	TYTO TOTAL TO	ALISSNIDIT	^ X&DC'AWT.DX^	PRES D Trees	
C_IN_94IN1	TYTOTO TO TO	ALISSNIDIT	NADCAWIRTO	REFE E MOD	DIMPOSS
C_IN_95IN2	THIS OF THE LG	ALISSNIDIT	NTE	EEE G VGF	PVRPQVPLRP
CRF01_AE_C	WYPONTOWN	ALTSSNMNN.	.ADCAWLEAO	EEEEVGF	PVRPQVPLRP
CRF01_AE_C	AVSQDLDKHG	AVTSSNINN.	. ADNVWLEAQ	EEEEVGF	PVRPQVPLRP
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CRF01_AE_T	WASODI DIGIG	AITSSNIDN.	.ADCVWLRAQ	EDEEVGF	PVMPQVPLRP
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CRF02 AG G	AAMOUTONAG PAMOUTONAG	AITSSNTAET AITSSNTAFT		EDEEVGF	PVKPOVDT.DD
CRF02 AG N	AASODI.DRHG	ALISSNIAFT			
CRF02 AG S	AASODIDRHG	VITE COMPAN	NADCAWLEAQ	EDENVGF	PVRPQVPLRP
CRF02_AG_S					
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CRF04_cpx_	AVSRDLDKHG	AITSSNTAAT	NPDKAWLEAQ	EEEE. EVGF	PVRPQVPLRP
CRF04_cpx_		TAT T TON THE	NPIKAWIJEAA	DDDD Billion	**************************************
CRF05_DF_B					
CRF05_DF_B CRF06_cpx		TATIONNIAN I	NAII.48WV 677	DDDD 7100	
		UT TOOK THIS	NAACAMAAAAA	MINIT	
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		TATIONITH	MICHARINACI	PD SISTAM	D7
CRF11_cpx_					
D_CD_84ZR0		VT TOOM TALL	NAACAWVEAO	DDD DDGGG	77 m =
D_CD_NDK		TT TOOK TWO I	NUTCAWLEAD	PPC 137577	77 T 7 C
D_UG_94UG1		EZT TOOKITMOT	NUACAWIRAC	PP 1377777	77
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 B_US_P896 MTYKAAVDLS HFLK.EKGGL EGLVHSQKRQ DILDLWVYHT QGFFPDWQNY
     B_US_RF MTFKAAVDLS HFLK.EKGGL DGLVFSQKRQ DILDLWVYHT QGYFPDWQNY
    B_US_SF2 MTYKAALDIS HFLK.EKGGL EGLIWSQRRQ EILDLWIYHT QGYFPDWQNY
B_US_WEAU1 MTYKAAHDLS HFK..EKGGL EGLIYSQKRQ DILDLWVYHT QGFFPDWQNY
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B_US_WR27	MTVEANIM	0 1107 12			
B_US_YU2		S HELK EKGGI	L EGLIYSQKR	DILTDTMAAH.	r QGYFPDWQNY
BF1_BR_93B		- *** **** ****************************		)	
C_BR_92BR0			. KI+1.1 YSKKD/	) CTTDTtmm+	h
C_BW_96BW0		S FFLK EKGGI	FCTINGES	5 DIFDFMAAM.	L OGAŁŁDMÓWA
C_BW_96BW1	MTYKAAFGL	S FFLK EKGGI	POTITION CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PRO	) DILDLWVYN	C QGYFPDWQNY
C_BW_96BW1	MTYKGAFDL	S FFLK EKCCI	DCITYCKER(	S EILDLWAAH.	C QGYFPDWQNY
C BW 96BW1		FFLK EKGGI	DCI TACDADO	S EITDFMAAM.	C OGAŁŁDMOCA
C_ET_ETH22	MTYKAAFDLS	I IFIK EKGGI	. ECLIVOYOR	S EITDFMAAHJ	C OGALDDMHWA
C IN 93IN1	MTYKSAFDLS	FFLK EKGGL	ECLINGRADO	EILDLWVYN	C QGFFPDWHNY
C_IN_93IN9	MTFKEAVDLS	FFLK EKGGI	EGITVERED	ETTDTMAAH	C QGFFPDWQNY C QGFFPDWQNY C QGYFPDWQNY
C_IN_93IN9	MTFKGAFDLS	FFLK EKGGI	, EGULISKKK <u>(</u>	ETTDTMAAHJ	C QGYFPDWQNY C QGFFPDWQNY
C_IN_94IN1	MTFKGAFDLS	FFLK EKGGI	. EGITISKKKÇ	ETTDTMAXHJ	QGFFPDWQNY QGYFPDWQNY
C_IN_95IN2	MTFKGALDLS	FFLK EKGGI	. EGITYEKKRÇ	ETTDPMAAHJ	COTFPDWQNY CGYFPDWQNY
CRF01_AE_C	MTYKGAFDLS	FFLK EKGGT	DGITYSKKR	STEDEMOAND	COYFPDWQNY COYF
CRF01_AE_C	MTYKGAFDLS	FFLK EKGGT	DGITHSKADO	ETTOPMAXHJ	COGYFPDWQNY
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CRF03_AB_R	MITIKGALDUS	HFLKKGGL	DGLTYSKKRO	PTLDI MUSUUM	0011
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CRF04_cpx_	MILLEGADDIS	HFLK EKGGL	DGLTYSKKRO	RTI.DI.MIZVIM	007777
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CRF05_DF_B	111 T 1020 A D T D	TTTTV EKGGG	EGLTVGKKDA	DIT DI LUBRA	
CRF05_DF_B CRF06_cpx_	MATERION DES	HELIK. EKGGG	DCT.TWCDVDA	VIII DI LUMBER	
	1.1.T T T/WWE DMD	FFLK EKGGG	DCI.TVCICIO	DITT DI LE SAME	
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D_CD_ELI					
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D UG 94UG1					
F1 BE VI85					
F1_BR 93BR					
F1_FI_FIN9	MTYKGAFDLS	HFLK.EKGGL	EGLIYSKRRQ	EILDLWVYHT	QGYFPDWQNY
F1_FR_MP41	MTFKAAVDLS	QFXX.EKGGL	ECLTYCKING	EILDLWLYHT	QGYFPDWQNY
F2 CM MP25	MTYKAALDLS	HFLK EKGGL	EGDI ISKKRQ	EILDLWVYHT	QGFFPDWQNY
F2KU_BE_VI	MTYKGAFDLS	HFLK EKGGL	PCTIANKKKÓ	FILDLWVYHT	QGYFPDWQNY
G_BE_DRCBL		HFIK.EKGGL FFLK.EKGGL			
G_NG_92NG0	MTYKAAFDLS	FFLK EKGGL	DGI'IAGRADA ~GTA TQVVKÖ	PILDIVIDE	QGFFPDWQNY
G_SE_SE616					
H_BE_VI991	MTYKGAFDLS	HFLK EKGGL	EGI'IAGEANV -GHTIGVVKÖ	PITOTMANAL	QGYFPDWQNY
H_BE_VI997					
H_CF_90CF0		*** *** *******************************	コルチレコマミドハロハー	TATT TAT 1.77 YEARS	^ ~
J_SE_SE702		* * * ** ** ** * * * * * * * * * * * *	DISTRICT	CTT IN GRANNER	^~
J_SE_SE788			DUTLIYSKKRDO	DITT INT CHITTEN	^~**
K_CD_EQTB1	MTFKGAFDLG	FFLK.EKGGL	DGLIYSKPPO	ELL'DI MANAGES STIDIMANNI,	OGERPS::
				TTTTM A THT.	<b>GREEDMONA</b>

K CM MP535	MTYKAAFDIG	PRIK PROGI.	DGI.TVEVVDA	EILDLWVYHT	OGERPRUOTE
N CM YBF30	TTVKONEDI.C	PPLK DECCI	DODITION OF	DILDLWWYHT	QGFFPDWQNY
O CM ANT70	MTVKGAPDIS	PPLK PKCCI	EGLIYSHKRA	DIPDIMMAHL	
O CM MVP51	MTEKNAPDIS	PPLY PYCCI	DGLIYSHKRA		QGFFPDWQNY
O SN MP129	MTVVCARTOUS	PPIK PKCCI	DGLIYSHKRA		QGFFPDWQCY
O_SN_MF129	MTVKGAPDIS	FFUR. BROCE	DCLIVCDEDA	EILDLWVYHT	QGFFPDWQGY
U CD 83C	MILLEGATION	PRIV EVOCE	DGLIYSPERA	EILDIMAAHL	QGFFPDWQNY
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	151				
00BW0762 1		TRGWDRKT.VD	עם פאבעפפא	NEGENNCLLH	200
00BW0768 2	TPGPGVRYPI	TIGWCFKTVP	VD PREAFFE	TKGENSCLLH	PMCORCMEDC PMSORKIDDD
00BW0874 2	TPGPGVRYPI	TEGWEEKTAVE	VD PTEVEED	NEGENNCLLH	PMSQHGMEDS
00BW1471 2	TPGPGVRYPI	TEGWCYKTAVE	AD DKEADVI	.EGENNCLLH	PMSOUGMDDE
00BW1616 2	TPGPGTRLPI	TEGWCEKTAVE	VD PREVERA	NEGENNCLLH	PMCOOCMEDE
00BW1686 8	TPGPGVRYPL	TEGWEEKTAVE	VD PREVOED	NKGENNCLLH	DMCOUCADDE
00BW1759 3	TPGPGIRYPL	TEGWCEKTAVE	VD. PKEVEEA	NEGEDNCLLH	DWCLUCMEDD
00BW1773 2	TPGPGVRFPL	TEGWCEKTAVE	VD PREVEED	NEGEDNCLLH	PWCOHCMEDE PMSUNGMEDD
00BW1783 5	TPGPGVRYPL	TEGWCEKTVP	VD. PREVEED	NEGENNCLLH	PMCONGMEDE
00BW1795 6	TPGPGTRYPL	TFGWCYKLVP	VD. PREVEEA	NEGENNCLLH	PMSOUGHEDA
00BW1811 3	TPGPGVRYPL	TFGWCYKLVP	VD. PGEVEEA	NKGENNCLLH	PUSCHCIEDG
00BW1859 5	TPGPGVRYPL	TFGWCYKLVP	VD. PGEVEEA	NEGEDNCLLH	PICONGMEDIA
00BW1880 2	TPGPGIRYPL	TFGWCYKLVP	VD. PGEVEEA	NKGENNCLLH	PMCOAGMUDE
00BW1921 1	TPGPGVRYPL	TFGWPFKLVP	VD. PKEVEEA	NKGENNCLLH	DI'6UUGWEDE
00BW2036 1	TPGPGVRYPL	TFGWCYKLVP	VD. PREVEEA	NQGENNCLLH	PMCOEGMDDC FTISOGGMEDE
00BW2063_6	TPGPGVRYPL	TFGWCFKLVP	VD. PREVEEA	NEGENNCLLH	DIST.HCMPDM
.00BW2087_2	TPGPGVRYPL	TSGWCYKLVP	VD. PREVERA	NEGESNSLLH	DIST.HGMEDIA
00BW2127 2	TPGPGVKYPL	TFGWCFKLEP	VD. PKEVEEA	NEGDNNCLLH	DMSORGMODE
00BW2128 3	TPGPGVRYPL	TFGWRYKLVP	VD. POEVOOS	NEGDNNCLLH	DMCOHGIEDE
00BW2276 7	TPGPGIRYPL	TFGWCFKLVP	VD. PREVEEA	NEGENNCLLH	DDG1.UGTEDE
00BW3819 3	TPGPGIRYPL	TFGWCFKLVP	VD. PREVEEN	TEGENTCLLH	PMCORGMEDE
00BW3842 8	TPGPGVRYPL	TFGWCYKLVP	VD. PREVEEA	NQGENNCLLH	PMCORGIMEDE
00BW3871 3	TPGPGVRYPL	TFGWPFKLVP	VD. PREVEED	NNGENNCLLH	DMCORGMDDE.
00BW3876 9	TPGPGTRFPL	TFGWCFMLVP	VD. PREVEEA	NEGENSCLLH	DICORGNEDE
00BW3886 8	TPGPGVRYPL	TFGWPFKLVP	VD. PREVEEA	NQGENNCLLH	PMSOVGMEDE
00BW3891 6	TPGPGVRYPL	TFGWCFKLVP	VD. PREVEEA	NEGENNCLLH	DISORGHEDE
00BW3970 2	TPGPGVRYPL	TFGWCFKLVP	VD. PREIEEA	NKGEDNCLLH	PMSOHGMEDE
00BW5031 1	TPGPGVRYPL	TFGWCYKLVP	VD. PKEVEEA	TEGENNCLLH	DICOHGMEDE
96BW01B21	TPGPGVRYPL	TFGWCFKLVP	VD. PREVEEA	SEGEDNCLLH	PMSOHGMEDE
96BW0407	TPGPGVRYPL	TFGWCYKLVP	VD. PREVEEA	NEGENNRLLH	DWST.HGMEDE
96BW0502	TPGPGVKYPL	TFGWCFKLVP	VD. PGEVEEA	NKGEDNCLLH	PMSOHGMEDE
96BW06 J4	TPGPGITYPL	TFGWPFKLVP	VD. PREVEEA	NNGENNCLLH	PMSOHGMDDE
96BW11 06	TPGPGVRYPL	TFGWCFKLVP	VD. PGEVEEA	NEGENNCLLH	DMYORGMEDE
96BW1210	TPGPGVRYPL	TFGWCFKLVP	VD.PGEVEEA	NGGEDNCLLH	PMSOHGTEDA
96BW15B03	TPGPGVRYPL	TFGWCYKLVP	VD. PREVEEN	NQGENHCLLH	PMSOHGMDND
96BW16_26	TPGPGVRFPL	TFGWCFKLVP	VD.PREVEEE	TEGDNNCLLH	PMNOHGMDDD
96BW17A09	TPGPGVRYPL	TFGWCYKLVP	VD.PREVEED	NEGENNCLLH	PMSOHGMEDA
96BWM01_5	TPGPGIRYPL	TFGWCFKLVP	VD. PREVEEA	NKGENTSLLH	PVSLHGMEDE
96BWM03_2	TSGPGVRYPL	TFGWCYKLLP	VD.PKEVEEA	SEGENNCLLH	PMNOHGMEDE
98BWMC12_2	TPGPGVRYPL	TFGWPFKLVP	VD.PKEVEEA	NKGENNCLLH	PMSTHGTEDA
98BWMC13_4	TPGPGVRYPL	TFGWCYKLVP	VD. PREVEEA	NEGENNCLLH	PMSLHGTEDA
98BWMC14_a	TPGPGTRYPL	TFGWPFKLVP	VD.PREVEEA	NNGENNCLLH	PMSOHGMDDE
98BWM014_1	TPGPGVRYPL	TFGWCYKLVP	VD. PREVEEA	NEGEDNCLLH	PMSOHGTEDD
98BWM018_d	TPGPGVRYPL	TFGWCYKLVP	VD. PREVEEA	NEGEDNCLLH	PMSOHGMEDA
98BWMO36_a	TPGPGTRYPI	TFGWCFKLVP	VD. PREVEEA	NEGENNSLLH	PVSLHGMEDE
98BWM037_d	TPGPGVRYPL	TFGWCFKLVP	VD.PREVEEA	TEGEDNCLLH	PLSOHGIEDA
99BW3932 <u></u> 1	TPGPGVRYPL	TFGWCFKLVP	VD. PREVEEN	NORENSCLLH	PWSOHGWEDD
99BW4642_4	TPGPGVRYPL	TFGWCFKLVP	VD. PREVERA	NEGENNCLLH	DWSOHGWEDD
99BW4745_8	TPGPGVRYPL	TFGWCLKLVP	VD. PREVEED	NEGENNCLLH	PMSOHGMEDA
99BW4754_7	TPGPGIRYPL	TFGWCFKLVP	VD. PREVOEA	NEGDDNCLLH	DWZUŁGWIEDA
99BWMC16_8	TPGPGIRYPL	TFGWCFRLVP	VD. PSEVEEA	NOGENNCLLH	PISOHGMEDE
A2_CD_97CD	TPGPGARFPL	TFGWCFKLVP	VD.PSEVEEA	TEGENNSLLH	PICOHGAEDE
		- · <b></b>			TOXIGURDE

A2 CY 94CY	траратрург.	TECHCERT ID	THE DODIEDA	maannaa * ***	D.T.C.C.
A2D97KR	TEGEGIRIED	TEGWCEKTAD	VE.PSEVEKA	TOGENNSLLH	PICOHGVDDP
	TEGEGIKIEN	TEGWCEKTA	VS.PAEVEEA	TEGETNSLLH	PICOHGIEDA
A2G_CD_97C	TEGEGAKIED	TEGWCEKTA	MD. PAEVEEA	NKEENSSLLH	PICQHGMEDD
A_BY_97BL0	TEGENTKEEF	TEXYCLKPAD	VD. PAEVEEA	TXGENNSLLH	PICQHGMDDE
A_KE_Q23	TPGPGTRFPL	TEGWCEKLVP	VD.PDEVEKA	TEGENNSLLH	PICQHGMDDE
A_SE_SE659	TPGPGIRFPL	TEGWCEKLVP	VD. PDEVEKD	TEGENNSLLH	PICQHGMDDE
A_SE_SE725	TPGPGVRYPL	TEGWCEKLVP	VD. PDEVEQA	NEGENNSLLH	PMCQHGMDDE
A_SE_SE753	TPGPGIRYPL	TFGWCFKLVP	VD.PDEVKKD	TEGENNSLLH	PMCQHGMDDE
A_SE_SE853	TPGPGVRYPL	TFGWCFKLVP	VE.PEEVEKA	NEGENNSLLH	PICQHGMDDE
A_SE_SE889	TPGPGTRFPL	TFGWCFKLVP	VD.PDEVEKA	TEGENNSLLH	PICQHGMDDE
A_SE_UGSE8	TPGPGIRYPL	TFGWCFKLVP	VD.PDEVEKA	TEGENNSLLH	PMCQHGMDDE
A_UG_92UG0	TPGPGIRYPL	TFGWCFKLVP	VD.EDEVEEA	TGGENNSLLH	PICQHGMDDE
A_UG_U455	TPGPGIRYPL	TFGWCYKLVP	VD.PAEVEEA	TGGENNSLLH	PICQHGVDDE
AC_IN_2130	TPGPGVRYPL	TFGWCFKLVP	VD.PREVEEA	TGGEDNCLLH	PVCQHGMEDE
AC_RW_92RW	TPGPGVRYPL	TFGWCYKLVP	VD.PREVEEA	NEGEDNCLLH	PLSQHGMEDE
AC_SE_SE94	TPGPGIRYPL	TFGWCFKLVP	VN.PDEVEEA	TKGENNSLLH	PMCQHGMDDK
ACD_SE_SE8	TPGPGTRYPL	TFGWCFKLVP	VD.PREVEEA	NEGENNCLLH	PMSQHGIEDE
ACG_BE_VI1	TPGPGTRFPL	TFGWCFKLVP	MD.PTEVEEA	NEGENNCLLH	PISQHGMEDE
AD_SE_SE69	TPGPGIRYPL	IFGWCFELVP	VD.PKEVEED	IG.ENSSLLH	PMHOHGMEDT
AD SE SE71	TPGPGTRFPL	TFGWCFKLVP	VD.PDEVEKA	TEGETNTLLH	PICOHGMDDE
ADHK NO 97	TPGPGERFPL	TFGWCFKLVP	VD.PQEVEKA	NDGENNCLLH	PMCOHGMEDE
ADK CD MAL	TPGPGIRFPL	TFGWCFKLVP	MS.PEEVEEA	NEGENNCLLH	PISOHGMEDA
AG BE VI11	IPGPGTRFPL	TFGWCFKLVP	MD. PAGIEKA	NEGENNSLLH	PTCOHGMGDT
AG_NG_92NG	TPGPGTRFPL	TFRWCFKLVP	MD. PAEIREA	NKGENNSLLH	PTCOHGLEDA
AGHU GA VI	TPGPGIRYPL	CFGWCYKLVP	VD. PKEVERA	TEGENNCLLH	PTCOOGMDDG
AGU CD Z32	TPGPGTRYPL	CFGWCFKLVP	VD. PREVERA	NTGENNCLLH	DWZORGWDDD
AJ BW_BW21	TPGPGTRFPL	TEGWCYKLVP	AD DEEAEEV	NEGENNCLLH	DL'CORGMEDE
B AU VH	TPGPGTRYPL	TEGWCEKTAP	AE BDOAEKA	NEGENISLLH	DWGT.UCMEDE
B CN RL42	TPGPGTRFPL	TEGWCEKTAVE	VD. PEOVERA	NEGENNCLLH	DWGURGADDD
B DE D31				NEGENNSLLH	
B_DE_HAN	TPGPGVRYPI.	TEGWCEKT.VD	VE DUERENG	SLLH	PACT HOMEDIA
B FR HXB2	TPGPGVRVDI.	TEGWCVKT.VD	VE DUKIERS	NKGENTSLLH	PASINGIPDI
B GA OYI	TPGPGTPVDI.	CEGMCEKIND	MD DDOTTERA	NEGENISLLH	PYSLICIONDP
B GB CAM1	TPGPGTRYPI.	TEGMCEKT VD	VE DECVEEN	NKRENASLLH	PACOHOMODO
B_GB_GB8	TPGPGTPFPI.	TEGMCEKTAD	ABTENDATE AN	NEGENNCLLH	PMGOUGTEDD
B GB MANC	TREPETRYDI.	PEGMCEKIND	AD DEVICES	NEGENNELLH	PMSQHGIEDP
B KR WK	TECEPATERIA.	THE CHICKLY TO	VD.FEQVEEA	TVGKNNCLLH	PMSLHGMDDP
B_NL_3202A	TDCDCTDVDI.	TEGWCERTAD	VE.PERVEEA	NEGENNSLLH	PMINLHGMDDP
B TW TWCYS	TEGEGIRIEL TEGEGEVEVET.	TEGNCEKTAD	AE DEVIERS	NEGENNSLLH	PMSQHGMDDP
B US BC	TEGEGVETEL	TEGNCEKTAD	VE.PEQVEKA	NEGENXCLLH NEGENNSLLH	PMSQHGMDDP
B US DH123	TPGPGIRIPH	TEGMCENTAD	AD DENTERY	NEGENNSLLH NEGENNCLLH	PMSQHGMDDP
B US JRCSF	TEGEGIKIED	TEGMCEKTAD	VD.PEKVEAA	NEGENNCLLH	PISLHGMEDP
	TAGEGVAFED	TEGWCEKEVP	VD.PEKVEEA	NEGENNCLLH	PMSQHGMDDP
B_US_MNCG	TPGPGIRIPL	TEGWCEKLVP	VE.PEKIEEA	NKGENNCLLH	PMSQH.MDDP
B_US_P896	TPGPGIRIPL	TEGWCYKLVP	VE.PDEGENN	REDNSLLH	PANQHGVEDS
B_US_RF	MDGDGTRYPL	TEGWCEKLVP	VE.PDKVEEA	TEGENNSLLH	PICLHGMDDP
B_US_SF2	TPGPGIRIPL	TEGWCEKTAN	VE.PEKVEEA	NEGENNSLLH	PMSLHGMEDA
B_US_WEAU1	TPGPGTRYPL	CFGWCFKLVP	VE.PEKVEEA	NEGENNSLLH	PMSLHGMDDH
B_US_WR27	TPGPGTRYPL	TEGWCEKLVP	LE.PDQVEEA	NKGENNCLLH	PMSQHGMDDP
B_US_YU2				NAGENNCLLH	
BF1_BR_93B	TPGPGTRYPL	TLGWCFKLVP	VD.PEEVEKA	NEGENNCLLH	PMSQHGMEDE
C_BR_92BR0				NTGENNSLLH	
C_BW_96BW0	TPGPGVRYPL	TFGWCYKLVP	VD.PKEVEEA	NEGENNRLLH	PMSLHGMEDA
C_BW_96BW1	TPGPGVRYPL	TEGWCFKLVP	VD.PGEVEEA	NEGEN.CLLH	PIAQHGMEDE
C_BW_96BW1	TPGPGVRYPL	TFGWCFKLVP	VD.PGEVEEA	NGGEDNCLLH	PMSQHGIEDA
C_BW_96BW1	TPGPGVRYPL	TFGWCYKLVP	VD.PREVEEN	NQGENHCLLH	PMSQHGMDNP
C_ET_ETH22				NEGENNCLLH	
C_IN_93IN1				NEGEDNCLLH	
C_IN_93IN9	TPGPGVRYPL	TFGWCFKLVP	VD.PREVEEA	NEGEDNCLLH	PVCQHGMDDE
<b>C_IN_93IN9</b>	TPGPGVRFPL	TFGWCFKLVP	VD.PREVEEA	NEGENNCLLH	PVCQHGMEDE
C_IN_94IN1	TPGPGTRFPL	TFGWCFKLVP	VD.PREVEEA	NEGEDNCLLH	PVCQHGMEDD
C_IN_95IN2	TPGPGVRFPL	TFGWCFKLVP	VD.PREVEEA	NKGEDNCLLH	PVCQHGMEDD

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CRF01_AE_C TPGPGIRYPL CFGWCYKLVP VD.PKEVEED NKDESNCLLH PMSQHGVDDE
 CRF01_AE_C
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  CRF02_AG_G TPGPGTRFPL TFGWCFKLVP MD.PKAVEEA TEGENNSLLH PICQHGIEDE
  CRF02_AG_N TPGPGTRFPL TFGWCFKLVP MD.PAEVEEA NEGENNSLLH PICQHGMEDD
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 CRF02_AG_S TPGPGIRYPL TFGWCYKLVP MD.PAEVEEA NQGENNSLLH PICQHGMEDE
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 CRF03 AB R TPGPGIRFPL TFGWCYKLVP VD.PDEVEEA TEGENNSLLH PICQHGMDDE
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 CRF04_CPX_ TPGPGTRFPL CFGWCFKLVP VD.PQEVEEI TAGEDNCLLH PISQHGMEDE CRF05_DF_B TPGPGIRYPL TLGWCFKLVP VN.PEEVEKA NEGEDNCLLH PMSLHGMEDD
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 CRF06_cpx_ TPGPGTRFPL TFGWCYKLVP VD.PEEVEEL TKGENNCLLH PICQHGAEDE
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 CRF06_CPX TPGPGIRYPL TFGWCYKLVP VD.PREVEED TKGENNCLLH PMSQHGMEDE
 CRF06_CPX_ TPGPGIRYPL TFGWCFKLVP VD.PKEVEEE TKGENXSLLH PMCQHGVDDP
 CRF11_cpx_ TPGPGVRYPL CFGWCYKLVP VD.PREVEEA NEGENNCLLH PMSQHGMDDE
 CRF11_cpx_ TPGPGIRYPL CFGWCYKLVP VD.PREVEEA NEGENNCLLH PMSQHGIEDE
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    D_CD_ELI TPGPGIRYPL TFGWCYELVP VD.PQEVEED TEGETNSLLH PICQHGMEDP
    D_CD_NDK TPGPGIRYPL TFGWCFQLVP VD.PQEVEEA TEREDNCLLH PMCQQGMEDP
 D_UG_94UG1 TPGPGIRYPL TFGWCFELVP ME.PKEVEEN TEGEDNCLLH PINQHGMEDP
 F1_BE_VI85 TPGPGIRYPL TLGWCFKLVP VD.PEEVEKA NEGENNCLLH PMSQHGMEDE
 F1_BR_93BR TPGPGIRYPL TMGWCFKLVP VD.PEEVEKA NEGENNCLLH PMSQHGMEDE
 F1_F1_F1N9 TPGPGVRYPL TFGWCFKLVP VE.PEEVEKA NEGENNCLLH PMSQHGMEDE
 F1_FR_MP41 TPGPGIRFPL TFGWCFKLVP VD.PDEVEKA NEGENNCLLH PMSQHGMDDE
 F2_CM_MP25 TPGPGPRFPL TFGWCFKLVP VD.PEEVEKA NEGENNCLLH PMSLHGMEDD
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 G_NG_92NG0 TPGPGTRLPL TFGWCFKLVP MD.PABIEEA NKGENISLLH PICQHGMEDE
 G_SE_SE616 TPGPGTRFPL TFGWCFKLVP MD.PAEVEEA NKGENNSLLH PICQHGMEDE
H_BE_VI991 TPGPGERYPL TFGWCFKLVP VD.PQDVEKA NEGENNSLLH PMCQHGIEDP
H BE V1997 TPGPGEGYPL TFGWCFKLIP VD.PQEVERA NEGENNCLLY PICQHGMEDE
H_CF_90CF0 TPGPGERFPL TFGWCFKLVP VN.PQEVEQA NEGENNSLLH PMSLHGMEDD
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J SE SE788 TPGPGIRYPL TFGWCYKLVP VD.PSEVEEA NEGENNCLLH PICQHGIEDE
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O_SN_MP129 TPGPGPRFPL TFGWLFKLVP VSEAEAEELG NKCERASLLH PACNHGFEDN
O_SN_MP130 TPGPGTRFPL TFGWLFKLVP VSEAEAEELG NKCDRAKLLH PVCNHGFEDP
U_CD__83C TPGPGIRYPL TFGWPFKLVP VD.PKEVEEA NEGENNCLLH PICQHGMDDE
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00BW0768_2 EREVLRWKFD SSLARRHMAR E.LHPEYYKD C.
00BW0874_2 DREVLKWQFD SSLVRRHMAR E.LHPEYYKD C.
00BW1471_2 DREVLKWVFD SSLARRHMAR E.LHPEYYKD C.
00BW1616_2 DREVLRWKFD SSLARRHLAR E.LHPEYYKD C.
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   00BW1773_2 HGEVLKWKFD SSLARRHLAR E.KHPEFYKD C.
00BW1783_5 DKEVLQWKFD SSLARRHMAR E.LHPEYYKD C.
   00BW1795_6 DREVLMWKFD SHLARRHTAR E.LHPEFYKD CR
00BW1811_3 HGEVLEWKFD SMLARRHMAR E.LHPEYYKD C.
   00BW1859_5 EREVLRWKFD SQLARRHMAR E.LHPEYYKD C.
   00BW1880_2 HKEVLRWKFD SSLARRHLAR E.LHPEYYKD C.
   00BW1921_1 DREVLMWKFD SQLAHRHLAR E.KHPEWYKD C.
   00BW2036_1 HKEVLTWKFD SHLARRHMAR E.LHPEYYKD C.
   00BW2063_6 HREVLQWKFD SQLARRHIAR E.RHPEYYKD C.
   00BW2087_2 DREVLKWVFD SSLARRHLAR E.KHPEFYKD C.
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   00BW2128_3 HGEVLMWKFD SHLAYRHMAR E.KHPEFYKD C.
   00BW2276_7 EREVLKWKFD SSLARRHMAR E.LHPEYYKA C.
   00BW3819_3 EGEVLQWKFD SLLAYRHMAR E.QHPEYYKD C.
   00BW3842_8 DREVPMWKFD SLLAHRHMAR E.LHPGYYKD C.
   00BW3871_3 DREVLMWKFD SHLVHRHMAR E.LHPEYYKG C.
   00BW3876_9 DREVLRWKFD S.LARRHIAR E.LHPEYYKN C.
  00BW3886_8 EREVLKWKFD SQLAYRHMAR E.IHPEYYKD C.
  00BW3891_6 DREVLRWKFD SHLARRHMAR E.LHPEWYKD C.
  00BW3970_2 DREVLKWQFD ISLARRHMAR E.LHPEWYKD ..
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     96BW0407 DREVLRWKFD SSLAHRHMAR E.LHPEYYKD C.
     96BW0502 HGEVLKWKFD SQLARRHMAR E.LYPEYYKD C.
    96BW06_J4 EREVLTWKFD SHLVHRPMAR E.IHPEYYKD C.
    96BW11_06 HKEVLKWKFD SQLARRHLAR E.LHPEFYKD C.
     96BW1210 DREVLKWKFD SSLARRHLTR E.KHPEYYKD C.
    96BW15B03 DKEVLMWKFD SHLARRHMAR E.LHPEYYKD C.
    96BW16_26 ERGVLKWKFD SHLARRHMAR E.LHPEYYKD C.
   96BW17A09 DREVLKWVFD SHLARKHMAR E.LHPEYYKN C.
   96BWMO1_5 HREVLKWKFD SSLARRHMAR E.LHPEFYKD C.
   96BWMO3_2 HGEVLMWKFD SQLARRHMAR E.LHPEYYKD C.
  98BWMC12_2 EREVLKWQFD SSLARRHMAR E.LHPEYYKD C.
  98BWMC13_4 GKEVLIWKFD SHLARRHMAR E.LHPEFYKD C.
  98BWMC14_a DREVLMWKFD SQLARRHIAR E.IHPEYYKD C.
 98BWMO14_1 EKEVLKWVFD SSLARRHVAR E.LHPEFYKD C.
 98BWMO18_d DREVLRWKFD SSLARRHMAR E.LHPEYYKD C.
 98BWMO36_a DREVLKWEFD IRLAHTHMAR Q.LHPEFYKN C.
98BWM037 d DREVLKWQFD SSLAHRHVAR E.LHPEYYKD C.
99BW3932 l DREVLKWKFD SMLARRHMAR E.LHPEFYKD C.
99BW4642 d DREVLIWKYD SQLARRHMAR E.LHPEFYKD C.
99BW4745 B DREVLKWKFD SHLARRHMAR E.LHPEFYKD C.
99BW4754 | HKEVLKWKFD SHLARRHMAR E.LHPEFYKD C.
99BWMC16 B DREVLKWQFD SSLARRHMAR E.LHPEFYKD C.
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A2_CY_94CY EREVLKWFD SRLALRHLAR E.LHPEFYKD C.
A2_CD_97K EREVLKWVFD SHLALVHKAR E.LHPEFYKD C.
A2G_CD_97C DKQVLGWRFD SSLARRHIAR E.KHPEYYKD C.
A BY 97BLO EKEVLKWKFD SRLALKHRAR E.LHPEFYKD C.
A KE Q23 EREVLKWKFD SRLALKHRAR E.LHPEFYKD C.
A SE_SE659 EKEVLKWKFD SRLALKHRAR E.LHPEFYKD C.
A SE_SE659 EKEVLKWKFD SRLALKHRAQ E.MHPEFYKD C.
A SE_SE753 EREVLKWKFD SRLALKHRAQ E.HPEFYKD C.
A SE_SE853 ERETLMWKFD SRLALKHRAQ E.LHPEFYKD C.
A SE_SE853 ERETLMWKFD SRLALKHRAR E.LHPEFYKD C.
A SE_SE853 ERETLMWKFD SRLALKHRAR E.LHPEFYKD C.
A SE_SE853 ERETLMWKFD SRLALKHRAR E.LHPEFYKD C.
A SE_SE853 ERETLMWKFD SRLALKHRAR E.LHPEFYKD C.
A SE_UGSE8 ERETLMWKFD SRLALKHRAR E.LHPEFYKD C.
A UG_92UG0 EKETLRWKFD SSLARVHKAR E.LHPEFYKD C.
A UG_U455 EKEVLMWKFD STLALKHRAY E.LHPEFYKD C.
B DUBBERYD C.
 98BWMO37_d DREVLKWQFD SSLAHRHVAR E.LHPEYYKD C.
 A_UG_U455 EKEVLMWKFD STLALKHRAY E.LHPEFYKD ..
AC_IN_2130 YGEVLQWKFD SHLAYKHQAR E.RHPEFYKD C.
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AC_RW_92RW DREVLKWKFD SHLAHRHMAR E.LHPEYYKD C.
AC_SE_SE94 ERETLVWRFD SRLALKHLAR E.KHPEFYKD C.
ACD_SE_SE8 DKEVLRWKFD SQLARRHMAR E.MHPEYYKD C.
ACG_BE_VII DREVLVWRFD SRLALKHIAK E.KHPEYFKD C.
AD_SE_SE69 EREVLMWRFN SRLAFEHKAH Q.LHPEYYKD C.
AD_SE_SE71 EKEVLKWQFD SRLALKHLAR E.KHPEFYKD C.
ADHK_NO_97 EXEVLMWRFD SRLAFKHRAR E.LHPEFYKD C.
ADK_CD_MAL EREVLKWKFD SSLALRHRAR E.QHPEYYKD C.
AG_BE_VII1 EREVLVWKFD SMLAFKHRAR E.LHPEYYKD C.
AG_NG_92NG DREVLVWRFD SSLARRHTAR E.CHDEYYKD C.
  AG_NG_92NG DREVLVWRFD SSLARRHIAR E.QHPEYYKD C.
  AGHU_GA_VI EREVLMWKFD SSLAREHVAR K.LYPEFFKD C.
  AGU_CD_Z32 EREVLMWKFD SSLARKHLAR E.MHPEFYKD .. AJ_BW_BW21 DREVLMWKFD SSLARRHLAR E.KHPEFYKD C.
      B_AU_VH EKEVLMWKFD SRLAVHHMAR E.LHPEYYKN ..
   B_CN_RL42 EREVLMWKFD SRLAIHHMAR E.MHPEYHKD C.
    B_DE_D31 EREVLVWRFD SRLAFKHMAR E.LHPEYYKN ..
    B_DE_HAN EREVLKWKFD SHLAFHHKAR E.LHPEYYKD C.
   B_FR_HXB2 EREVLEWRFD SRLAFHHVAR E.LHPEYFKN C.
    B_GA_OYI EKEVLVWKFD SRLAFRHMAR E.VHPEYYKD C.
   B_GB_CAM1 EKEVLMWKFD SRLAFHHMAR E.KHPEFYKD C.
    B_GB_GB8 EKEVLVWKFN SRLAFHHMAR E.LHPEFYKD C.
   B_GB_MANC EKEVLVWKFD SRLAFHHVPD E.LHPEYYKD C.
      B_KR_WK EGEVLVWRFD SRLAFHHMAR E.KHPEYYKD C.
 B_NL_3202A EREVLEWRFD SRLAFHHMAR E.LHPEYYKD C.
 B_TW_TWCYS EKEVLVWRFD STLAFHHRAR E.LHPEYYKX C.
   B_US_BC EREVLEWRFD SRLAFHHMAR E.LHPEYYKN R.
 B_US_DH123 EKEVLLWKFD SRLAYHHMAR E.LHPEYYKN C.
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   B_US_MNCG EREVLVWKSD SHLAFQHYAR E.LHPEYYKN C.
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 B_US_WEAU1 EKEVLMWKFD SKLAFHHVAR E.LHPEYFKD C.
   B_US_WR27 EKEVLVWKFD SRLAFHHKAR E.LHPEYYKN ..
    B_US_YU2 EREGLEWRFD SRLAFHHVAR E.LHPEYYKN ..
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 C_BW_96BW0 DGEVLRWKFD SHLAHRHMAR E.LHPEYYKD C.
 C_BW_96BW1 HKEVLKWKFD SQLARRHLAR E.LHPEFYKD C.
 C_BW_96BW1 DREVLKWKFD SSLARRHLTR E.KHPEYYKD C.
 C_BW 96BW1 DKEVLMWKFD SHLARRHMAR E.LHPEYYKD C.
 C ET ETH22 DREVLKWKFD SHLARRHMAR E.LHPEYYKD C.
 C_IN_93IN1 HREVLKWKFD SQLARRHMAR E.LHPEFYKD C.
 C_IN_93IN9 HREVLQWKFD SLLAHRHRAR E.LHPEFYKD C.
 C_IN_93IN9 HREVLQWKFD SHLAHRHMAR E.LHPEYYKD C.
 C_IN_94IN1 HREVLMWK...QLAHRHIAR E.LHPEFYKD C.
 C IN 95IN2 HNEVLVWKFD SQLAHKHRAR E.LHPEFYNK DC
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CRF01_AE_C EREVLMWKFD SSLARRHIAR E.LHPEYYKD C.
CRF01_AE_C EREVLMWKFD SSLARRHIAR E.LHPEYYKD C.
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CRF01_AE_T EREVLMWKFD STLARKHIAR E.QHPEFYKD C.
CRF01_AE_T EREVLMWKFD SALARKHIAR E.LHPEYYKD C.
CRF01_AE_T EREVLMWKFD SALARKHIAR E.MHPEYYKD C.
CRF01_AE_T EREVLMWKFD SALARKHVAR E.QHPEYYKD C.
CRF01_AE_T EREVLMWKFD SSLARKHLAR E.LHPEYYKD C.
CRF01_AE_T BREVLWKFD SSLARKHLAR E.LHPEYYKD C.
CRF02_AG_F DREVLVWRFD SSLARRHIAR E.RHPEFYKD C.
CRF02 AG F DREVLVWRFD SSLARRHIAR B.RHPEFYKD C.
CRF02_AG_G DREVLVWRFD SSLAFTHRAR E.MHPEFYKD C.
CRF02_AG_N DREVLIWRFD SRLAFRHTAR E.LHPEYYKD C.
CRF02_AG_S DREVLVWRFD SRLAFTHKAR E.MHPEFYKD CX
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  CRF03_AB_R EKEVLMWKFD SRLALTHRAR E.LHPEFYKD C.
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  CRF04_cpx_ EREVLKWKFD SRLAFKHIAR E.LHPEFYKD C.
  CRF04_cpx_ EREVLKWKFD SLLAYRHMAR E.LHPEFYKD C.
  CRF05_DF_B DREVLQWKFD SSLALRHIAR E.RHPEFYQD ..
  CRF05_DF_B DGEVLRWKFD SSLALKHIAR E.RRPEFYQD ...
  CRF06_cpx_ EREVLKWKFD SSLARRHIAR E.KHPEFYKD C.
  CRF06_cpx_ EGEVLMWKFD SSLARRHIAR E.LHPDFYKD C.
  CRF06_cpx_ EREVLMWKFD SSLARRHTAR E.MHPEFYKD C.
 CRF06_cpx_ EXEVLMWKFD SSLARRHIAX E.XHPEFXKD C.
 CRF11_cpx_ EREVLKWVFD SSLARKHIAR E.LHPDFYKD ...
 CRF11_cpx_ DREVLRWKFD SSLARRHIAR E.LHPDFYKD ...
 D_CD_84ZRO EKEVLVWRFN SRLAFEHKAK E.KYPEYFKN C.
    D_CD_ELI ERQVLKWRFN SRLAFEHKAR E.MHPEFYKN ..
    D_CD_NDK ERQVLMWRFN SRLALEHKAR E.LHPEFYKD C.
 D_UG_94UG1 EREVLVWRFN SRLAFEHKAK M.KHPEYYKD C.
 F1_BE_VI85 DREVLRWKFD SSLALRHIAR E.RHPEFYQD ..
 F1_BR_93BR DKEVLKWEFD SRLALRHIAR E.RHPEYYQD ..
 F1_F1_F1N9 DREVLKWKFD SRLALKHIAR E.RHPEFYRD ..
 F1 FR MP41 DREVLRWEFD SRLAFRHIAR E.KHPEFYQN ...
 F2 CM_MP25 DKEVLKWQFD SRLALRHIAR E.RHPEYYKD ..
 F2KU BE VI EREVLVWKFD SRLALKHLAR E.KHPEYYKD C.
 G_BE_DRCBL DGEVLVWRFD SSLARRHLAR E.LHPEYYKD C.
G_NG_92NG0 DREVLVWRFN SSLARRHLAR E.LHPEYYKD C.
 G_SE_SE616 DREVLVWRFD SSLARRHIAR E.LHPEYYKD C.
 H_BE_VI991 EREVLMWKFD SRLALRHRAK E.LHPEFYKD C.
 H_BE_VI997 EGEVLMWKFD SRLAFTHTAR E.KHPEFYKD C.
 H_CF_90CF0 GREVLMWKFD SRLALTHLAR V.KHPEY.KD C.
 J_SE_SE702 EREVLKWKFD SSLARRHIAR E.LHPEFYKD C.
 J_SE_SE788 EREVLQWKFD SSLARRHIAR E.LHPEFYKD C.
J_SE_SE788 EREVLQWKFD SSLARRHIAR E.LHPEFYKD C.

K_CD_EQTB1 HREVLKWKFD SSLARKHVAR E.MHPEYYKD ...

K_CM_MP535 HREILMWKFD SSLARRHVAR E.LHPEFYKN C.

N_CM_YBF30 HKEVLVWRFD SSLARRHVAR E.LHPEFYKN C.

O_CM_ANT70 HKEILMWKFD RSLGNTHVAM ITHPELFQKD ...

O_CM_MVP51 HGEILKWQFD RSLGLTHIAL QKHPELFPSN ...

O_SN_MP129 HGQILKWQFD RSLGSTHVAM VTNPELFNKD ...

O_SN_MP130 HKEMLKWQFD RSLGSTHVAL ITHPELFLKD ...

U_CD___83C EKEVLMWKFD SSLARRHLAR E.LHPEFYKD C.
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Table 14. HIV Pol Sequence Alignment GCG Multiple Sequence File. Written by Omiga 1.1

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Name:	· · · - · · - ·	Len:	1046	Check:	935	Weight:	1.00
Name:	00BW1686_8	Len:	1046	Check:	8131	_	
Name:	00BW1759_3	Len:	1046	Check:	579	Weight:	1.00
Name:		Len:	1046	Check:	1975		
Name:	00BW1783_5	Len:	1046	Check:	216	Weight:	1.00
Name:	00BW1795_6	Len:	1046	Check:	5932		
Name:	00BW1811_3	Len:	1046	Check:	6525		
Name:	00BW1859_5	Len:	1046	Check:		J	
Name:		Len:	1046	Check:	7093		
Name:		Len:	1046	Check:	2524		
Name:	00BW2036_1	Len:	1046	Check:			
Name:	00BW2063 <u></u> 6	Len:	1046	Check:			
Name:	00BW2087_2	Len:	1046	Check:			
Name:	00BW2127_2	Len:	1046	Check:		Weight:	1.00
Name:	00BW2128_3	Len:	1046	Check:			
Name:	00BW2276_7	Len:	1046	Check:			
Name:	00BW3819_3	Len:	1046	Check:			
Name:	00BW3842_8	Len:	1046	Check:		_	
Name:	00BW3871 3	Len:	1046	Check:	6948		
Name:	00BW3876 9	Len:	1046	Check:	6609	·	1.00
Name:		Len:	1046	Check:	8244		1.00
Name:	00BW3891 6	Len:	1046	Check:		-	1.00
Name:	00BW3970 <u></u> 2	Len:	1046	Check:			
Name:	_	Len:	1046	Check:			1.00 1.00
Name:	96BW01B21	Len:	1046	Check:	2358		
Name:		Len:	1046	Check:		J	1.00
Name:	96BW0502	Len:	1046	Check:		5	1.00
Name:		Len:	1046	Check:	7173	Weight:	1.00
Name:	96BW11_06	Len:	1046	Check:	973	Weight:	1.00
Name:		Len:	1046	Check:	5817	Weight:	1.00
Name:	96BW15B03	Len:	1046	Check:		Weight:	1.00
Name:	96BW16_26	Len:	1046	Check:	3303	Weight:	1.00
Name:		Len:	1046	Check:	1256	Weight:	1.00
Name:		Len:	1046	Check:	5593	Weight:	1.00
Name:	96BWMO3 2	Len:	1046	Check:	3661	Weight:	1.00
Name:	98BWMC12_2	Len:	1046	Check:	7159	Weight:	1.00
Name:	98BWMC13 4	Len:	1046	Check:	3254	Weight:	1.00
Name:	98BWMC14_a	Len:	1046	Check:		Weight:	1.00 1.00
	98BWM014 1	Len:	1046	Check:			
	98BWM018 d	Len:	1046	Check:		J	1.00
	98BWMO36_a	Len:	1046	Check:		Weight:	1.00
	98BWM037 d	Len:	1046	Check:		Weight:	1.00
	99BW3932 1	Len:	1046	Check:		Weight:	1.00
	99BW4642 4	Len:	1046	Check:		Weight:	1.00
	99BW4745_8	Len:	1046	Check:		Weight:	1.00
	99BW4754 7	Len:	1046	Check:	4905	-	1.00
	99BWMC16 8	Len:	1046	Check:		Weight:	1.00
	A2_CD_97CD	Len:	1046	Check:	1544	Weight:	1.00
	A2_CY_94CY	Len:	1046	Check:		Weight:	1.00
Name:		Len:	1046	Check:		Weight:	1.00
	A2G_CD_97C	Len:	1046	Check:		Weight:	1.00
	A_BY_97BL0	Len:	1046	Check:		Weight:	1.00
	A_KE_Q23 A	Len:	1046	Check:	2724	Weight:	1.00
		nen:	T0#0	cueck:	1835	Weight:	1.00

```
Name: A SE SE659
                             Len:
                                     1046
                                            Check: 647 Weight:
                                                                      1.00
  Name: A SE SE725
                             Len:
                                            Check: 263 Weight:
                                     1046
                            Len: 1046 Check: 2271 Weight: 1.00
Len: 1046 Check: 5036 Weight: 1.00
Len: 1046 Check: 8414 Weight: 1.00
Len: 1046 Check: 3268 Weight: 1.00
                                                                      1.00
  Name: A SE SE753
  Name: A_SE_SE853
  Name: A_SE_SE889
  Name: A_SE_UGSE8
                            Len: 1046 Check: 2007 Weight:
  Name: A_UG_92UG0
                                                                       1.00
                          Len: 1046 Check: 2277 Weight: 1.00
Len: 1046 Check: 5353 Weight: 1.00
  Name: A_UG_U455_
  Name: AC_IN_2130
 Name: AC_RW_92RW
Name: AC_SE_SE94
                          Len: 1046 Check: 4695 Weight: 1.00
                            Len: 1046 Check: 4206 Weight: 1.00
Len: 1046 Check: 7281 Weight: 1.00
  Name: ACD_SE_SE8
                            Len: 1046 Check: 1400 Weight: 1.00
 Name: ACG BE VI1
                            Len: 1046 Check: 4640 Weight: 1.00
 Name: AD SE SE69
 Name: AD_SE_SE71
                                    1046 Check: 1057 Weight: 1.00
1046 Check: 3502 Weight: 1.00
1046 Check: 2578 Weight: 1.00
                            Len:
                         Len:
Len:
Len:
Len:
 Name: ADHK_NO_97
 Name: ADK CD MAL
 Name: AG_BE_VI11
                                    1046 Check: 8416 Weight: 1.00
1046 Check: 9397 Weight: 1.00
 Name: AG NG 92NG
 Name: AGHU GA VI
                                    1046 Check: 9562 Weight: 1.00
                          Len:
                                    1046 Check: 8398 Weight: 1.00
 Name: AGU CD Z32
                          Len:
                                    1046 Check: 3451 Weight: 1.00
 Name: AJ BW BW21
                          Len:
 Name: B_AU_VH_AF
                                    1046 Check: 2033 Weight: 1.00
                          Len:
                                    1046 Check: 1369 Weight: 1.00
 Name: B_CN_RL42
                                   1046 Check: 1369 Weight: 1.00
1046 Check: 4607 Weight: 1.00
1046 Check: 1771 Weight: 1.00
1046 Check: 4569 Weight: 1.00
1046 Check: 3682 Weight: 1.00
1046 Check: 3161 Weight: 1.00
1046 Check: 6253 Weight: 1.00
1046 Check: 7670 Weight: 1.00
1046 Check: 8737 Weight: 1.00
1046 Check: 2083 Weight: 1.00
1046 Check: 3056 Weight: 1.00
1046 Check: 3160 Weight: 1.00
1046 Check: 3160 Weight: 1.00
1046 Check: 1102 Weight: 1.00
                          Len:
 Name: B DE D31 U
                          Len:
 Name: B DE HAN U
                         Len:
Len:
 Name: B_FR_HXB2_
 Name: B_GA_OYI__
                          Len:
                         Len:
Len:
 Name: B_GB_CAM1
 Name: B GB GB8 A
 Name: B_GB_MANC
                          Len:
 Name: B KR WK AF
                            Len:
 Name: B NL 3202A
                            Len:
 Name: B_TW_TWCYS
                         'Len:
 Name: B US BC LO
                           Len:
                           Len:
 Name: B_US_DH123
                                    1046 Check: 1102 Weight:
                                                                      1.00
 Name: B_US JRCSF
                                    1046 Check: 5571 Weight:
                                                                      1.00
                           Len:
 Name: B US MNCG
                                   1046 Check: 3988 Weight:
                                                                      1.00
Name: B US P896
                         Len:
Len:
                           Len: 1046 Check: 2465 Weight:
                                                                      1.00
Name: B_US_RF_M1
                                   1046 Check: 3672 Weight:
                                                                      1.00
Name: B_US_SF2_K
                           Len:
                                   1046 Check: 1754 Weight:
                                                                      1.00
Name: B US WEAU1
                           Len:
                                   1046 Check: 2993 Weight:
                                                                      1.00
Name: B US WR27
                           Len:
                                   1046 Check: 4098 Weight:
                                                                      1.00
Name: B_US_YU2_M
                           Len:
                                   1046 Check: 5564 Weight:
                                                                      1.00
Name: BF1 BR 93B
                           Len:
                                   1046 Check: 4182 Weight:
                                                                      1.00
Name: C BR 92BR0
                           Len:
                                   1046 Check: 5481 Weight:
Name: C BW 96BW0
                                                                      1.00
                           Len:
                                   1046 Check: 6833 Weight:
                                                                      1.00
Name: C_BW_96BW1
                           Len:
                                   1046 Check: 2166 Weight:
                                                                      1.00
Name: C_BW_96BW1
                           Len:
                                   1046 Check: 5817 Weight:
                                                                      1.00
Name: C_BW_96BW1
                      . Len:
                                   1046 Check: 5157 Weight:
                                                                      1.00
Name: C_ET_ETH22
                           Len:
                                   1046 Check: 3509 Weight:
                                                                      1.00
Name: C_IN_93IN1
                           Len:
                                   1046 Check: 5471 Weight:
Name: C_IN_93IN9
                                                                      1.00
                          Len:
                                   1046 Check: 4102 Weight:
Name: C_IN_93IN9
Name: C_IN_94IN1
                                                                      1.00
                          Len:
                                   1046 Check: 3150 Weight:
                                                                     1.00
                          Len:
                                   1046 Check: 5157 Weight:
                                                                     1.00
Name: C_IN_95IN2
                                   1046 Check: 4641 Weight:
                          Len:
                                                                     1.00
Name: CRF01 AE C
                                   1046 Check: 87 Weight: 1.00
                          Len:
Name: CRF01_AE_C
                    Len:
Len:
Len:
Len:
                                   1046 Check: 3758 Weight:
                                                                     1.00
Name: CRF01_AE_C
                                   1046 Check: 2775 Weight:
                                                                     1.00
Name: CRF01_AE_T
                                   1046 Check: 1864
                                                         Weight:
                                                                     1.00
Name: CRF01 AE T
                          Len:
                                   1046 Check: 7414
                                                         Weight:
                                                                     1.00
```

```
Name: CRF01 AE T
                                      Len:
                                                 1046
                                                         Check: 7837 Weight: 1.00
11
00BW0762_1 FFRENLAFPQ G.EAREFPPE QT...... RANSPT SR.....E
                                                                                               50...
00BW0768_2 FFRENLAFPQ .GEAGEFPSE ............QTRANSTT SR.........K
00BW0768_2 FFRENLAFPQ GEAREFPSE ......QTRANSTT SR ... R
00BW0874_2 FFRENLAFPQ G.EAREFPPE QA .....RAISPT SR ... E
00BW1471_2 FFRENLAFSE G.EARELPSE Q ......ARAISPT SR ... E
00BW1616_2 FFRENLAFPQ G.KAGEFPPE QTRANSP ... SSTSANSPT SR ... E
00BW1686_8 FFRENLAFPQ G.EAREFPSE Q .....ARAISPT SR ... E
00BW1759_3 FFRENLAFPQ GEAREFPSE .....QTRANSPT TR ... E
00BW1773_2 FFRENLAFPQ G.EAREPPSE QTRAN.....SPT SR....E
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00BW1783 5	שחשג האשמשש	CCEADEEDAD	00000		
00BW1783_5	FERENTAL ABOV	GGEAREFPAE	QTSRE	QTRANSPT	SRE
00BW1733_0	FERENTAL SO	G.EAREFPSE	QT	RANSPT	SRE
00BW1811_3	FERENLA PRO	G.EAREFPSE	QARANSPTR.	ANSPT	SRE
00BW1889_3	PERENLAPPO	G. KAREFSPE	QA	RANSPT	SRE
00BW1980_2 00BW1921 1	FEBRAT ABDO	G.EAREFPPE	QT	RADSPT	SRE
00BW1921_1 00BW2036 1	FFRENLAPPO	G.EAREFPSE	Q	ARANSST	SRE
	PERENTAL	G.KAREFPSE	QNSP	TRRANSPT	SRE
00BW2063_6	FFRENLAFPQ	G.EAREFPSE	QT	RANSPT	SRK
00BW2087_2	FFRENLAFPQ	GGEAGEFPSE	••••••		SRA
00BW2127_2	FFGENLAFPQ	G.EAREFPPE	QARTNSP	QAGAISPT	SRE
00BW2128_3	FFRENLAFQQ	.GEAREFPSE	QTRTNSPTSR	.EQTRANSPT	SGE
00BW2276_7	FFRETLAFQQ	G.KARELPSE	QDRANSPTR.	ANSPT	GRQ
00BW3819_3	FFRENLAFPQ	G.EAREFPPK	QARTNSP	NSPT	SRE
00BW3842_8	FFREDLAFPR	R.KAREFPSE	QNRAN	.SPTRANSPT	SR
00BW3871_3	FFRENLAFPQ	G.EAREFPSE	Q	TRANSPT	SR
00BW3876_9	FFRENLAFPQ	G.KAREFPSK	QA	RANSPT	GRE
00BW3886_8	FFRENLAFPQ	G.EAREFPSE	QTRANSPT	SRANSPT	SRE
00BW3891_6	FFRENLAFPQ	G.EAREFSSE	Q	ARANSPT	SR E
00BW3970_2	FFREILAFPE	G.EAWEFPSE	Q	IRANSPT	SR. E
00BW5031_1	FFRENLAFQQ	G.EARELPPE	QTRTNS.	. PTNANSPT	SR E
96BW01B21	FFRENLAFPQ	G.KAREFPSE	OTR.	AISPT	SR F
96BW0407	FFRENLAFPQ	G.EAREFPSE	0	TRANSPT	SD D
96BW0502	FFRENLAFPQ	G.EAREFPPE	OIRASSPNS.	TNSPT	CD C
96BW06 J4	FFRENLAFPO	RGEAREFPSE		QARANSPT	מם
96BW11 06	FFRENLAFPO	G. EAREFPSE		QTGANSPT	3E
96BW1210	FFRENLAFPO	G. EAREFPSE	OTRAIS	PT	SRE
96BW15B03	FFREDLAFPO	G. KAREEDSE	OM	RANSPT	SRE
96BW16 26	FFRENLAFPO	GEAREFOSE	X14	QTRANSPT	SKE
96BW17A09	FFRENLAFPO	GGEAREFDGE	0	ARANSPT	SGE
96BWM01 5	FFRENTAFDO	G EVDEEDGE	Q	RANSPT	SRE
96BWMO3 2	FFRENTAFDO	G EVELLE	OTT	RANSPT	SRN
98BWMC12 2	FFRETLAFDO	G.EAREFFE	QI	RANSPT	SRA
98BWMC13 4	PPDFMI.APDO	C ENDEEDOE	QG	RANSPT	SRE
98BWMC14 a	FFPFMLAFPQ	G.EAREFPSE	QT	RANSPT	SRK
98BWM014 1	PEDEMINEDO	G.EAKELPSE	Q	TRTISPT	SRE
98BWM018 d	PPDENT. A PDO	CEACKEROR	······	KTRANSPT	SRE
98BWM036 a	PPDEMINERO	C EARLEDDE	QTSANSP	TSRANSPT	SRE
98BWM038_d	ELEBENT VEDO	G.EAREFPPE	QTRANSP	TSRANSPT	GRE
99BW3932 1	FERENTAL S	G.EAREFPSE	K	TRANSPT	GRE
_	FFRENLATQQ	G.EAREFPPE	QDSANSPTSR	ELQDRANSPT	SRE
99BW4642_4	FFRENLAPPQ	G.EAREFLPE	QD	RANSPT	SRE
99BW4745_8	FFRENLAFQQ	G.EAREFPSE	QTRANSP	TRANSPT	SRE
99BW4754_7	FFRKNLAFQQ	G.EAREFPSE	QT	RANSPT	SRE
99BWMC16_8	FFREDLAFQQ	R.EAREFPSE	Q.TRANS	PTRANSPT	SRE
A2_CD_97CD	FFRENLAFQQ	R.EAREFSSE	• • • • • • • • • •	QDRANSPT	N
A2_CY_94CY	FFRENLAFQQ	R.EARKFSSE	• • • • • • • • •	QNRANSPT	SRE
A2D97KR	FFRENLAFPQ	R.EAREFSSE	• • • • • • • • • •	QNRTNSPT	SRG
A2G_CD_97C	FFRENLAFQQ	R.EAREFS	• • • • • • • • • • • •	SEQDRANSPT	RRE
A_BY_97BL0	FFRKNLAFQQ	R.EARKFSSE		OTRATSPT	S PK
A_KE_Q23_A	FFRENLAFQK	G.EAREFSSE		OTGTNSST	S RD
A_SE_SE659	FFRENLAFQQ	R.EARKFSSE		OTRANSPT	S RD
A_SE_SE725	FFRENVAFQQ	G.EARKFSSE		QTGANSPT	SRA
A_SE_SE753	FFRENLAFQQ	G.EAGKFSSE		OTGANSPT	S PD
A_SE_SE853	FFRENLAFQQ	R.EARKFSSE		OTRANSPT	S · PD
A_SE_SE889	FFRENLAFQQ	G.EARKFSSE		OTGANSPT	S PD
A_SE_UGSE8	FFRENLAFPQ	G.EAGKFSSE		OTGAISPT	S RD
A_UG_92UG0	FFRENLAFQQ	R.EARKFSSE	• • • • • • • • • •	QTRTNSPT	מש אב
A_UG_U455_	FFRENLAFOO	G.EAREFSSE		QTRANSPT	SD M
AC_IN_2130	FFRENLAFPO	G.EAREFPSE		QTRANSPA	SD P
AC_RW 92RW	FFRENLAFOO	G.EARKESPE	0	TGANSPT	OKE
AC_SE_SE94	FFRENLAFOO	G. EARKESSE		QTGANSPT	2
ACD_SE_SE8	FFREDMAFPO	G. KAREFPSE		QTRTNSPT	oKD
			• • • • • • • • • • • • • • • • • • • •	· · ATKINDEL	5KE

ACG BE VII	FFFFMLAROO	G.EARKFSSE			
AD_SE_SE69	FFRENLAFQQ	G KADEEDOE	• • • • • • • • • • • • • • • • • • • •	QTRANSPT	SRANSPISRE
AD SE SE71	FSRENLAFQQ		• • • • • • • • • • • • • • • • • • • •		
ADHK NO_97	FFRENLAFQQ		• • • • • • • • • • • • • • • • • • • •		SRN.
ADK CD MAL	FFRENLAFPQ		• • • • • • • • • • • • • • • • • • • •		SRE
AG BE VI11		G.EARKFSSE			SRE
AG NG 92NG		G.EAREFS			SRE
AGHU GA VI		G.EAREFS		SEQARANSPT	
AGU CD Z32		G.EAREFSSE		PEQTRANSPT	
AJ BW BW21		G.KAREFSPE			RRE
B AU VH AF		G.KARELSSE			SRE
B CN RL42	FFREDLAFPQ		• • • • • • • • • • • • • • • • • • • •		RRE
B DE D31 U		G. KAREFSSA			RGE
B DE HAN_U		G.EARKFSSE			RRE
B_FR_HXB2_	FFREDLAFLQ				RRE
B_GA_OYI_	FFREDLAFPQ		• • • • • • • • • • • • • • • • • • • •		RRE
B GB CAM1	FFRENLAFPQ		• • • • • • • • • • • • • • • • • • • •		SRE
B GB GB8 A		G. KAREFSPE			RRE
B GB MANC		G. KAREFSSE			RRE
B KR WK AF	FFREDLAFPQ				RGE
B NL 3202A		G. KAREFSSE			RRE
B TW TWCYS		G. KARKFSSE			RRE
B US BC LO		G. KAREFSSE			RGE
B US DH123		G. KAREFSSE			RRE
B_US_JRCSF		G.KAREFPSE			RRE
B US MNCG	PEREDIATIO	C WARRETTSE	• • • • • • • • • • • • • • • • • • • •	QTRANSPT	RRE
B_US_P896	FFDFNI.AFDO	G.KAEFS.SE	• • • • • • • • • • • • • • • • • • • •	QNRANSPT	RRE
B US RF M1	PPDENIAPPO	G.KAREFSSE G.KARELSSE	• • • • • • • • • • • • • • • • • • • •		
B US SF2 K		G. KAREESSE			RRE
B_US_SFZ_R B_US_WEAU1					RRE
B US WR27		G.KAREFSSE X.KARXFPSE			RRE
B US YU2 M		G. KARKFSSE			SRE
BF1 BR 93B	FFRENLAFPQ				RRE
C BR 92BR0	FFRENLAFPQ		• • • • • • • • • •		SRE
C_BK_92BK0					RRE
C BW 96BW1		G.EAREFPSE G.EAREFPSE			SRE
C BW 96BW1					SRK
C_BW_96BW1		G.EAREFPSE			SRE
C ET ETH22	PPREDIATEQ	G. KAREFPSE	QN	RANSPT	SRE
C_IN_93IN1	PERETHAT QQ	G.KAREFPSE	QTRANSPTRE	S.QTRANSPT	TRE
C IN 93IN9	FEDENTAFPO	G.EAREFPPE G.EAREFPPE	• • • • • • • • • • • • • • • • • • • •		
C_IN_93IN9	EPDENIA PDO	C EAREFPE	OFFICE	QTRADSPT	SRE
C IN 94IN1	FFRENUAL PO	G.EAREFPSE G.EAREFPPE	QTRANSPSS.		
C_IN_95IN2	FFRENLAFPQ	G.EAREFPP.	• • • • • • • • • • • • • • • • • • • •		SRE
CRF01 AE C					SRE
CRF01 AE C		G.EAREFSSE G.EARKFPSE			SRE.
CRF01_AE_C		G.EAREFSSE			NGE.
CRF01 AE T		G.KAGKFSSE		-	SRE.
CRF01 AE T		R.KAGEFSSE			SRK.
CRF01 AE T		G. KAREFSSE			SR
CRF01_AE_T		G. KAGKFSSE			SRK.
CRF01 AE T					SRE.
CRF01 AE T		G.KAGEFSSE G.KAGKFSSE			SRK.
CRF02 AG F					SRK.
CRF02_AG_F		G.EARKFSSK			SRE
CRF02_AG_G		G.EARKFSSK		-	SRE
CRF02_AG_G CRF02 AG N		R.EARELSSE		<del>-</del>	GRE
CRF02_AG_N		G.EARKFSSE G.EARKFSSE			SRE
CRF02_AG_S CRF02 AG S	TEVENTIAL OO	G. PARKESSE	• • • • • • • • • • • • • • • • • • • •	QTGTNSPA	SRE
CRF03 AB R	T T KENTAL QQ	G.EARKLSSE	• • • • • • • • •	OTTOTAL	SRE
CRF03_AB_R	FFDFMIAFQQ	R.EARKFSSE R.EARKFSSE	• • • • • • • • •	OTRAISPT	5RK
	- r venune 66	M. BARKE SSE		··QIKAISPT	5RK

CRF04_cpx_		D ====================================			
		R.EARKFSSE			RGM
CRF04_cpx_		R. KAGEFSSE	• • • • • • • • • • •		RRE
CRF04_cpx_		G.EARKFSSE	• • • • • • • • • •	QDRANSPA	RRE
CRF05_DF_B		G.EARELPPE	• • • • • • • • • • •		SRE
CRF05_DF_B		G.KAREFPPE	• • • • • • • • • • • • • • • • • • • •	QARTLSPT	SR
CRF06_cpx_		G.EAREFS	• • • • • • • • • • • • • • • • • • • •	SEQARANSPT	HRE
CRF06_cpx_		G.EARKFS		SEQARANSPT	RGE
CRF06_cpx_	FFRENLAFQQ	G.EAGELS		SEOARANSPT	RRE
CRF06_cpx_	FFRENLAFPQ	G.EAREFSPE	QAR		CRE
CRF11 cpx	FFRENLAFQQ	R.KARELSPE			SRE
CRF11_cpx_		G.EAREFPTE			SRE
D CD 84ZRO		G.KAGELSSE			SR
D_CD_ELI_K		G. KAGELSPK		GIVVNOLT	SRE
D CD NDK M		G.KAGEFSSE	• • • • • • • • • • • • • • • • • • • •		
D UG 94UG1		W. KAREFPSE			SRE
F1 BE VI85		G.EARKFPSE			SRD
F1 BR 93BR		G.EARKLHPE	• • • • • • • • • • • • • • • • • • • •		SRE
F1_BK_93BK			• • • • • • • • • • • • • • • • • • • •		SRE
		G.EARKFPS.	• • • • • • • • • • •		SRE
F1_FR_MP41		G.EARKFSSE			SGE
F2_CM_MP25		G.EARKFSSE	• • • • • • • • • • • • • • • • • • • •		SRE
F2KU_BE_VI		R.EAGKFSSE	• • • • • • • • • • • • • • • • • • • •	QTRANSPT	SRE
G_BE_DRCBL		G.EAREFP	• • • • • • • • • • • • • • • • • • • •	SEQARANSPT	RRE
G_NG_92NG0	FFRENLAFQQ	G.EARKLS		PEQDRANSPT	SRE
G_SE_SE616	FFRENLAFQQ	G.EAREFS		SEQURTNSPT	CRK
H_BE_VI991	FFRENLAFQQ	G.KAREFP		PEEARANSPT	SRE
H BE VI997	FFRENLAFQQ	R.EARKFS		PECARANSPT	SRE
H CF 90CF0	<b>FFRENLAFOO</b>	R.EARKFS		PRODUMENT	SRE
J SE SE702	FFREDLAFOO				SRE
J SE SE788					SRE
K CD EQTB1		R. EARKFSSE			
K CM MP535		G.EAREFSSE	• • • • • • • • • • • • • • • • • • • •		SRE
N CM YBF30		R.ETRKLPPD		QTRANSPT	SRE
O CM ANT70		H.EARQLCAE			TRE
O CM MVP51		H.EARQLCAE	T		DGG
O SN 99SE					NGG
	FFREILASGG	H.EARQLCAE	T		DDG
O_SN_99SE_	FFREILASGG	H.EARQLCTE	T		DDG
U_CD83C	FFRENLAFQQ	G.EAREFSSE	• • • • • • • • • •	QTRANSPT	SRE
	51				100
00BW0762_1	LQVR	GDK.	PHSEAG	AERQ	GTLNFPQITL
00BW0768_2	LQVRG	$\dots$ DNN.	PCSEAG	AERO	GTLNCPOTTL
00BW0874_2	PQARAISPTS	REPOVRRDN.	SRFEAG	VEREG	.TLNFPOITL
00BW1471_2	LQVR	$\dots$ GDN.	PRSEAG	AERQG	.TLNLPQITL
00BW1616_2	LQVR			GERQ	
00BW1686_8	LQVR	GDN.	PRSEAG	AERQ	GTLNLPQITL
00BW1759_3	LQVRG		PRSEAG	AERQ	GNLNFPQITL
00BW1773 2		GDN.		AERQ	
00BW1783 5			PCSRAG	DERQ	GIDNESOTUL
00BW1795 6	LQVR		DICERC	AERQ	GTFNFPQITL
00BW1811 3	LQVR		DARBOUT	AERQ	GILDMADOLIT
00BW1859_5	LQVR		DDCEAG	EKRQG	.NLNFPQITL
00BW1880 2			PRSEAG	AERQ	GTLNFPQITL
00BW1930_2 00BW1921 1		GDN.	PRSEAG	AEGQ	
_		GDN.		AERQG	.TLNFPQITL
00BW2036_1	LQVR		PRSEAG	AERQ	GTLNFPQITL
00BW2063_6	LR		PCSEAG	DERQ	GTLNFPQITP
00BW2087_2		QVRGDN.	PSIKAG	PERQ	GALNFPQITL
00BW2127_2		GDN.	PRSEAG	AERQG	.SLNFPQITL
00BW2128_3		GDN.	TRSEAG	AKKQ	GTLNFPQITL
00BW2276_7	LQVR	$\dots$ GDN.	PRAEAG	AERQG	.TLNFPOITL
00BW3819_3	LQVR	GDN.	PRSEAG	DERQG	.ALNFPOITL
00BW3842 8	TOTAL	CDIT	22022	AERQGTLQ	
002032_0	LQVR	GDN.	PRSEAG	AERUGT IO	GTLNFPOTTI.

00BW3871 3	TOTAL	CDV			
00BW3871_3	LOVE	GDN.	PRSEAG	ADRQ	GTLNFPQITL
_		GDN.		AERQ	GTLNFPQITL
00BW3886_8		GDN.	PRSEAG	AERQG	.SLNFPQITL
00BW3891_6		GDN.	PRSEAG	AERQG	.TLNFPQITL
00BW3970_2		GDN.		AEGQG	.TFNFPQITL
00BW5031_1		GDN.	PRSEAG	DEREG	.TLNFPOITL
96BW01B21		GDN.	PRSEAG	AEGQG	.ALNLPOITL
96BW0407		GDN.	· · · · PRSETR	VEGQG	.NFNFPOITI
96BW0502		GDN.	PRSEAG	AEGQGTLQ	GTLNCPOTTI
96BW06_J4	LQIR	GDN.	PRFEAG	TKRQ	GTINEPOTTI.
96BW11_06	LRG	NN.	PCSEAG	DERQ	GTINEDOTTI.
96BW1210	LQVR	GDN.	PCSEAG	AEGQG	TTESEDOTTE.
96BW15B03	LQVR	GDN.	PRSEAG	AERQ	GTI NEDOTTI
96BW16_26	LQVW	GDN.	PRSETG	AKGQ	GTENT POITS.
96BW17A09	LQVR	GDN.	PRSEAG	AERQG	TINTIQIII
96BWM01 5	LR	GDN.	PCSEAG	DERQGTLQ	. IDMIDQITT
96BWM03 ²		TNSP.	TSREAG	VEGQG	GATIMA LOTTE
98BWMC12 2		QARGDN.		DEGQG	TIMEPOTE
98BWMC13 4		GDN.		AERQ	TIMEFOLTE
98BWMC14 a		GDN.		AEGQ	GITWIPOTAT
98BWM014 1		ANSSTS.	PELOAG	AKRQ	GILMFPQITL
98BWM018 d		GDN.		AERQGS	GALNCPOITL
98BWM036 a				AEGQG	TLNFPQITL
98BWM037 d	LOVR	GDN.	DREEDER	AEGQG	TLNFPQITL
99BW3932 1		GDN.	DAGENT	GERQG	TLKFPQITL
99BW4642 4	LQIR			AERQG	.SLNFPQITL
99BW4745 8		GGN.	DIGERG	AERQ	RTLNFPQITL
99BW4754 7	LQVR		DHARA	AERQG	.TLNFPQITL
99BWMC16 8	LQVR		CDCEAR	VKGQ	GTPNFPQITL
A2_CD_97CD		DN.	DARSKAG	VEKQG	.NLNFPQITL
A2_CY_94CY	LENGGR		LIDEAG	EQGAV	HPCNFPQITL
A2D 97KR	LWNGGG		DIAGE	TGDQGTI	QSCNFPQITL
A2G CD 97C	PRVRR		PLAEAG	AEKQGTT	HSCNFPQITL
A BY 97BL0	LD.GGR		DI DEMO	DEGKGAV	YPCNFPQITL
A KE Q23 A	LWDGGR		PLPETG	TERQGTV	SSFNFPQITL
A SE SE659	PWDRRR		LPSEAG	AERQGTG.	PTLSFPQITL
A SE SE725	FWDGGR		LPSETG	ADP	.TFSFPQITL
A SE SE753	LWNEGR		LPSEAG	AERQGTE.	LTFSFPQITL
A_SE_SE853	LWDGGS		LPSEAG	AEGTR.	PTFSFPQITL
A SE SE889	LWDGGR		LPSEAG	AERQGTG.	PTLSFPQITL
A SE UGSE8		DN.	LPSEAG	EERQGVGG	TTLNFPQITF
A_UG_92UG0	LWDECD	bs.	LPSEAG	AKQP	.TFSFPQITL
A_UG_920G0 A UG U455	IMDEGR		LPSEAG	AERQGPE.	PTFSFPQITL
A_UG_U455_ AC IN 2130	TOTE	DD.	LPCETG	AERQGT	DSFSFPQITL
	LQIR		PRTEAG	AKRQG	.TLNFPQITL
AC_RW_92RW	LWNGG		LSSETG	AERQG	.TFNFPQITL
AC_SE_SE94	LRDGGR		NSEAG	TDRQGTG.	PAFSFPQITL
ACD_SE_SE8	LRVWRR		PLPEAG	AERQGT	VSFSLPQITL
ACG_BE_VI1		DR.	LLPEAG	TEGQGTI	SSFNFPQITL
AD_SE_SE69	LRVWRG		TFSETG	AERQGA	VSFSFPQITL
AD_SE_SE71	LWDGGR	DS.	LPSEAG	AEKQGTG	STLNFPQITL
ADHK_NO_97	LWDRGR		LLSEAG	$\mathtt{TEGQG} \dots \mathtt{TA}$	PSLSFPQITL
ADK_CD_MAL	LRVWGG		TLSETG	AERQGI	VSFSFPQITL
AG_BE_VI11	LGDGGR	$\dots$ DN.	PLSEAG	TEGHGTI	SSLNFPOITL
AG_NG_92NG	LRVRR		····PFPEAG	AEGKGIT	SIN.LPOITL
AGHU_GA_VI	LRVRR	····GDS.	PLPEAG	AKGKGA	VSFNLPOITL
AGU_CD_Z32	LRDER	$\dots$ GDN.	LLSEAG	TEGQGTI	PSFSFPOITL
AJ_BW_BW21	LRVWR		PLPEAG	GEGQGT	VSFNFPOITL
B_AU_VH_AF	LQVWGR		SLSEAG	ADROGT	VSFSFPOITL
B_CN_RL42_	LQVWGR		SISEAG	ADRQGT	ISFSFPOITL
B_DE_D31_U	LQVWGR	DSN.	SLSEAG	ADR OGT	VSESEDOTTI.
B_DE_HAN_U	LQVWG	SNS.	SLSEAG	ADRQGT	VSLSLPOTTL
				<b>-</b>	~

B_FR_HXB2	LOWICE		
B GA OYI		DNN	SPSEAG ADRQGT VSFNFPQVTL
B GB CAM1		DMM '	SPSEAG ADR. OGT VSENI DOTTE
B_GB_GB8 A	LOVWGR	· · · · · · ENN .	SLSKAG ADROGT VSRSEDOTTI
B GB MANC		· · · · · · DNN .	SLIEIG ADKOGT VSESEDOTEL
B KR WK AF	LQVWGR	· · · · · · · DNN .	SCSEAG TDROGT VSLSEDOTTI
B NL 3202A		· · · · · · DNN .	SLSEAG ANROGT VSFSFDOTT
B_NH_3202A	LOWIGE	· · · · · · DNN .	····SLSEAG AEGOGT VSLSLDOTT
B_US_BC_LO		· · · · · · DNN .	SLSEAG ADROGD VSESEDDITT
B_US_DH123		· · · · · · DNN .	SPSEAG AGROGN VST.SEDOTTE
B US JRCSF			SLSEAG AEGT TSLSLDOTTE
B_US_URCSF B US MNCG	LQVWGR	DSN.	SLSEAG AEAGADROGI VSENEDOTTI
B_US_P896	~	· · · · · DNN .	SLSEAG EEAGDDROGP VSFSFDOITE
B_US_RF_M1	LQVWGG	· · · · · · · DNN .	SUSEAG ADROGT VGI.GEDOTET
B_US_SF2 K		·DN	SUSEAG EDROGT VSRSEDOTTI
B US WEAU1		· · · · · · ENN .	SUSEAG ADROGT VSFNFDOTTI
B_US WR27	TOTATA	· · · · · · DNN .	SLSEAG ANROGA VSENEDOTTI
B US YU2 M	DOWNER	· · · · · · · DNN .	SLSEAG TDROGT VSESEDOTET
BF1_BR_93B	TOTALOD	· · · · · · DNN.	SLSEAG ADROGT VSESEDOTTE
C_BR 92BR0	TOWGE	GNN.	SLSETG ADROGD VSFGFPOTTI
C_BW_96BW0	TOWNGR	· · · · · · DNN .	SLSEAG DDROG. TALNIEDOTET
C_BW_96BW1	LQVR	GDN.	····PRSETR AEGOG TINEDOTTE
C_BW_96BW1	ING	NN.	PCSEAG DERO GTINEDOTTI
C_BW_96BW1	LOVE	····.GDN.	····PCSEAG AEGOG.
C ET ETH22	TOVD.	GDN.	····PRSEAG AERO GTINEDOTTI
C_IN 93IN1	TOWN	····.GSN.	TFSEAG AEROG. SINEDOTTE
C_IN 93IN9	LOVE	···GDN.	PSSKAG AEROG TIMEDOTOR
C_IN_93IN9	TOWN	·····GDT.	PSSKAG AEROG. TIMEDOTTE
C_IN_94IN1	LOVE	·····GDN.	····PRSEAG AKROG. TIMEDOTTE
C_IN_95IN2	TOWN	·····GDT.	DSSKAG ABDBG
CRF01 AE C	TODOOD	·····GDM.	····PSSEAG AEROG TENEDOTTE
CRF01_AE C		· · · · · · · · DN .	····· DEPEAG AEROGTP FSFSFDOITE
CRF01 AE C	LEDGGR	· · · · · · · · DIN .	LLPEAG AEROETA SSESEDOTTE
CRF01_AE_T		· · · · · DIN .	LLLEAG AEROG. TS SSISEDOTTE
CRF01 AE T	MCDCCP	· · · · · DN .	LLTEAG AEROGTS SSESEDOTTI
CRF01 AE T	TCDCC		וויייייי אמדיה אייייייייייייייייייייייייייייייייייי
CRF01 AE T	LGDGGR	• • • • • • • • • •	·····G AEROGTS SSESEDOTTE
CRF01_AE T			
CRF01_AE_T	T'GDGGK		(2011NIT.T.MENC)
CRF02 AG F			
CRF02_AG_F			
CRF02 AG G		· · · · · DIN .	LPSEAG TEGPG. TI SPSSEDOTET
CRF02_AG_N		· · · · · · NN .	. LISANG TROOG
CRF02 AG S	PWDRGR		
CRF02 AG S		······DIN.	HISEAG TGGOG TI SSISEDOTET
CRF03 AB R		······DIV.	···· LLPEAG TGGOG TI PSEMEDOTUL
CRF03 AB R	LWDGGR	· · · · · · · · · DIV .	· · · · PLPEIG TEGOG TA SSENEDOTES
CRF04_cpx_	LREERG	·····DN.	····PLPETG TEROG TA SSENT DOTTE
CRF04_cpx	LRDERG	· · · · · · · · · · · · · · · · · · ·	LLSKAG TEGOGT TSFNFDOTTE
CRF04_cpx_			·····DEAG TEGOGT TSFNFDOTTT
CRF05 DF B	LQVWGG	· · · · · · · DIN	DESEAG TEGO GT TSHNEDOTTE
CRF05_DF_B		·····	······································
CRF06_cpx_	LRFRR	· · · · ·	····PHAEAG AEGRGEV PSISEPOTTE
CRF06_cpx_	LRVRR	······································	····PDPEIG VEGEGGKGAI SIS LOCTOR
CRF06_cpx_	LRVRR	· · · · · · · · · · · · · · · · · · ·	····PLPGAE AEGKGAI SIN FROTTI.
CRF06_cpx_			····PLPEAG TEGKG. KGAT SIS RECTUL
CRF11_cpx_	LRVRR		
CRF11_cpx	LRVRG		
D_CD_84ZRO			
D_CD_ELI K			
D_CD_NDK M			
		· · · · · · · · · · · · · · · · · · ·	PLSETG AERQGT VSFNFPQITL

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D_UG_94UG1 LRIRGG.... DN.. ....TSSETG AER....QGT VSFNLPQITL
 F1_BE_VI85 LRVQRG.....DN.....PLSEAG AERR...GTV PSLSFPQITL
F1_BR_93BR LQVRGG.....DN.....PISEAG AERR...GTV PSLSFPQITL
F1_F1_F1N9 PRDQRR.... GTV PSLSFPQITL
F1_FR_MP41 LRVQRG.....NN.....PLSEAG AEGRGT.GTV SSLSLPQITF
F2_CM_MP25 LRVRGG.....DS.....SLPEAG AERQG...TG SSLDFPQITL
F2KU_BE_VI LRVWGG.....DK.....PLSEAG DERQG...TG ASFNLPQITL
G_BE_DRCBL LRVRG......GDS.....PLPEAG AEG...KGTI S.SIFPQITL
G_NG_92NG0 LRIRR......GDS.....PLPEAG AKG...EGAI SLN.FPQITL
G SE SE616 PRVRR. GDS. PLPEAG ARG. EGAI SUN.FPQITL
H BE VI991 LRVRR. GDH. PLSEAG AE. RTG TSFNFPQITL
H BE VI997 LRVRG. GDD. LLPEAG AE. GQG TSLCFPQITL
H CF 90CF0 LRVRR. GDD. PLSEAG AAE. GQG TSLSFPQITL
O_SN_99SE_ GNEGTR.... ESG. ....TEGG PER....T LSVCLPQIPL
O_SN_99SE GNEGTR.....KSG....TEGG PER....T LSVCLPQIPL
U_CD__83C LRVRR.....GDN...PLAEAG AEGQG..VPL PSFNFPQITL
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00BW2063_6 WQRPLVSIKV GGQIKEALLD TGADDTVLED INLLGKWKPK MIGGIGGFIK
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968W103						
965WMC1_2   968WMC1_2   968WMC1_2   968WMC1_2   968WMC1_3   400000000000000000000000000000000000	96BW17A09	WQRPLVSIKV	GGQIREALLD	TGADDAVI.ET	TMT.DC:VWVDV	. MIGGIGGE
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99BW4745_8 99BW4745_8 WGRPLVSIKV GGQIKEALLD TGADDTVLEE INLPGKWEK MIGGIGGI 99BW4745_8 WGRPLVSIKV GGQIKEALLD TGADDTVLEE INLPGKWEK MIGGIGGI 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 99BW4745_7 90PLVTVKI GGQLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI 90PLVTVKI GGQLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI 90PLVTVKI GGQLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI 90PLVTVKI GGQLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI 90PLVTVKI GGQLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI 90PLVTVKI GGQLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI 90PLVTKI GGQLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI 90PLVTKI GGQLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI 90PLVTKI G		WORPLVSIKV	GGQIREALLD	TGADDTVLED	TMT.DCWWww.	MIGGIGGETK
998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4745_8 998W4748_8 998W4748_8 998W4748_8 998W4748_8 998W4748_8 998W4748_8 998W474_8 998W4748_8 9		WQRPLVPIKV	GGQIKEALLD	TGADDTVLEE	TMT.DCKWKDV	MIGGIGGLIK
998W4745_8 998WA745_8 998PUTTKI GGQLKEALLD 998WA748_8 9		WQRPLVSIKV	GGQIKEALLD	TGADDTVIED	TSI.DCKWKDK	MIGGIGGETK
99BWW154_7 99BWW1616_8 A2_CD_97CD A2_CY_94CY A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D_97KN A2D		WQRPLVSIKV	GGQIKEALLD	TGADDTVIER	TNT.DCKWKDK	MIGGIGGEIK
A2_CY_94CY A2D_97CN A2_CY_94CY A2D_97CN A2C_CY_94CY WQRPLVTVKI EGQLREALLD TGADDTVLEE INLPGKWRPK MIGGIGGI A2_CC_94CY WQRPLVTVKI EGQLREALLD TGADDTVLEE INLPGKWRPK MIGGIGGI A2G_CD_97C A_EY_97BLO A_KE_Q23_A A_KE_Q23_A A_SE_SE659 A_SE_SE659 A_SE_SE753 A_SE_SE753 A_SE_SE859 A_SE_SE753 A_SE_SE853 A_SE_SE853 A_SE_SE853 A_SE_SE853 A_SE_SE853 A_SE_SE853 A_SE_SE853 A_SE_SE854 A_SE_SE854 A_SE_SE855 A_SE_SE855 A_SE_SE855 A_SE_SE855 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE		WQRPLVSIKV	GGQIKEALLD	TGADDTVI ED	TMT.DCVWVDV	MICCICCEIN
A2_CT_94CY A2_CT_94CY A2_CT_94CY A2_CT_97CY		WRRPLVTIKV	GGQIKEALLH	PGADDTVIER	TMT.DDEWEDE	MICCICCEIX
A2C_97KR A2D_97KR A2G_CD_97C  A_BY_97BL0 A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_SE_SE659  WQRPLVTVKI GGQLKEALLD TGADDTVLED A_KE_Q23_A A_SE_SE659  WQRPLVTVKU GGQLKEALLD TGADDTVLED A_SE_SE725  MQRPLVTVKU GGQLKEALLD TGADDTVLED A_SE_SE725  MQRPLVTVKU GGQLKEALLD TGADDTVLED A_SE_SE725  MQRPLVTVKU GGQLKEALLD TGADDTVLED A_SE_SE839  WQRPLVTVKU GGQLKEALLD TGADDTVLED A_SE_SE839  MQRPLVTVKU GGQLKEALLD TGADDTVLED A_SE_SE839  MQRPLVTVKI GGGLKEALLD TGADDTVLED A_SE_SE839  MQRPLVTVKI GGGLKEALLD TGADDTVLED A_SE_SE839  MQRPLVTVKI GGGLKEALLD TGADDTVLED A_GG_SES839  MQRPLVTVKI GGGLKEALLD TGADDTVLED A_UG_U455  MQRPLVTVKI GGGLKEALLD TGADDTVLED AC_IN_2130  MQRPLVTVKI GGGLKEALLD TGADDTVLED AC_IN_2130  MQRPLVTVKI GGGLKEALLD TGADDTVLED AC_SE_SE394  ACG_SE_SE394  ACG_SE_SE394  ACG_SE_SE394  ACG_SE_SE394  ACG_SE_SE394  ACG_SE_SE394  ACG_SE_SE394  ACG_SE_SE394  ACG_SE_SE395  MQRPLVTVKI GGGLKEALLD TGADDTVLED AC_RW_92RW  MQRPLVTVKI GGGLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI  MQRPLVTVKI GGGLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI  MQRPLVTVKI GGGLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI  MQRPLVTVKI GGGLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI  MQRPLVTVKI GGGLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI  MQRPLVTVKI GGGLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI  MQRPLVTVKI GGGLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI  MQRPLVTVKI GGGLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI  MQRPLVTVKI GGGLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI  MQRPLVTVKI GGGLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI  MQRPLVTVKI GGGLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI  MQRPLVTKI GGGLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI  MQRPLVTIKI GGGLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI  MQRPLVTIKI GGGLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI  MQRPLVTIKI GGGLKEALLD TGADDTVLED MINLPGKWKPK MIGGIGGI  MQRPLVT	A2_CD_97CD	WQRPLVTVKI	EGQLREALLD	TGADDTVIED	TMI.DWWWWDW	MIGGIGGETK
A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_CD_97C	A2_CY_94CY	WQRPLVTVKI	EGOLKEALLD	TGADDTVI.EE		MIGGIGGFIK
A_SE_978LO A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q23_A A_KE_Q3_A A_KE	A2D97KR	WQRPLVTVKI	EGOLREALLD	TGADDTVIT		MIGGIGGFIK
A_KE_Q23 A A_KE_Q23 A A_SE_SE659  MQRPLVTVKI GGQLKEALLD TGADDTVLED A_SE_SE753  MQRPLVTVKI GGQLKEALLD TGADDTVLED A_SE_SE753  MQRPLVTVKI GGQLKEALLD TGADDTVLED A_SE_SE853  MQRPLVTVKI GGQLKEALLD TGADDTVLED A_SE_SE853  MQRPLVTVKI GGQLKEALLD TGADDTVLED A_SE_SE853  MQRPLVTVKI GGQLKEALLD TGADDTVLED A_SE_UGSE8  A_SE_UGSE8  A_SE_UGSE8  A_UG_92UG0  MQRPLVTVKI GGQLKEALLD TGADDTVLED A_UG_92UG0  MQRPLVTVKI GGQLKEALLD TGADDTVLED A_UG_92UG0  MQRPLVTVKI GGQLKEALLD TGADDTVLED A_UG_92UG0  MQRPLVTVKI GGQLKEALLD TGADDTVLED A_UG_92UG0  MQRPLVTVKI GGQLKEALLD TGADDTVLED A_UG_92UG0  MQRPLVTVKI GGQLKEALLD TGADDTVLED A_UG_92WG0  MQRPLVTVKI GGQLKEALLD TGADDTVLED A_UG_92WG0  MQRPLVTVKI GGQLKEALLD TGADDTVLED A_UG_92WG0  MQRPLVTVKI GGQLKEALLD TGADDTVLED A_UG_P1VTVKI GGQLKEALLD TGADDTVLED A_UG_P1VTXKI GGQLK	A2G CD 97C	WQRPLVTVKI	GGOLTEALLD	משח אייייטעעעטע		MIGGIGGFIK
A_KE_Q23_A A_SE_SE659 A_SE_SE659 A_SE_SE659 A_SE_SE753 A_SE_SE753 A_SE_SE753 A_SE_SE753 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_DGS869 A_SE_VII AC_U_U455_ AC_IN_2130 AC_RM_92RW AC_SE_SE94 ACC_SE_SE94 ACC_SE_SE94 ACC_SE_SE94 ACC_SE_SE94 ACC_SE_SE94 ACC_SE_SE95 ACC_SE_SE94 ACC_SE_SE94 ACC_SE_SE94 ACC_SE_SE94 ACC_SE_SE95 ACC_SE_SE94 ACC_SE_SE95 ACC_SE_SE95 ACC_SE_SE94 ACC_SE_SE94 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE94 ACC_SE_SE95 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE97 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC_SE_SE96 ACC		WORPLVTVRT	GGOLKENTILD	TOWDDIATED		MIGGIGGFIK
A_SE_SE755 A_SE_SE755 A_SE_SE755 A_SE_SE755 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE859 A_SE_SE869 A_SE_UGSE8 A_UG_PLVTVKI GGQLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI A_UG_JUG5 A_UG_JUG5 A_UG_PLVTVKI GGQLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI A_UG_JUG5 A_UG_PLVTVKI GGQLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI A_UG_JUG5 A_UG_PLVTVKI GGQLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI A_UG_JUG5 A_UG_PLVTVKI GGQLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI A_UG_JUG5 A_UG_PLVTVKI GGQLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI A_UG_JES_SE8 AUQRPLVTVKI GGQLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI AD_SE_SE8 AUQRPLVTVKI GGQLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI AD_SE_SE8 AUQRPLVTVKI GGQLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI AD_JES_SE69 AUQRPLVTVKI GGQLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI AD_JES_SE69 AUQRPLVTVKI GGQLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI AD_JES_SE8 AUQRPLVTIKI GGQLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI AD_JES_SE8 AUQRPLVTIKI GGQLKEALLD TGADDTVLED INLPGKWKPK MIGGIGGI AD_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_JES_AU_J		WORPLVTVRT	GGOLKENTID	TGWDVIATED		MIXGIXGFIK
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ACD_SE_SE8 ACD_SE_SE8 ACG_BE_VIII AD_SE_SE69 AD_SE_SE69 AD_SE_SE71 ADHK_NO_97 ADK_CD_MAL AG_BE_VIII1 AG_MCPLVTVKI AGQLKEALLD AG_BE_VIII1 AG_MCPLVTVKI AGQLKEALLD AG_BE_VIII1 AG_MCPLVTVKI AGQLKEALLD AG_BE_VIII1 AG_MCPLVTVKI AGQLKEALLD AG_MCPLVTVKI AGQLKEALLD AG_MCPLVTVKI AGQLIEALLD AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVLEE AGDDTVL		WQRPLVTVRI	GGQLKEALLD		TNI-PGKWKDK	MICCICCEIX
ACG BE VII  AD_SE_SE69 AD_SE_SE69 AD_SE_SE71 ADHK_NO_97 ADK_CD_MAL AG_BE_VIII AG_MGPLVTVKI GGQLKEALLD AG_BE_VIII AG_MGPLVTVKI GGQLKEALLD AG_BE_VIII AG_MGPLVTVKI GGQLKEALLD AG_MG_SE_SE71 AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_MG_MG_SIGGF AG_MG_SE_VIII AG_MG_SE_VIII AG_MG_SE_MG_MG_SIGGF AG_MG_SE_VIII AG_MG_SE_MG_MG_SIGGF AG_MG_SE_VIII AG_MG_SE_MG_MG_SIGGF AG_MG_SE_VIII AG_MG_SE_MG_MG_SIGGF AG_MG_SE_MG_MG_SIGGF AG_MG_SE_MG_MG_SIGGF AG_MG_SE_MG_MG_SIGGF AG_MG_SE_MG_MG_SIGGF AG_MG_SE_MG_MG_SIGGF AG_MG_SE_MG_MG_SIGGF AG_MG_SE_MG_MG_SIGGF AG_MG_MG_SIGGF AG_MG_MG_MG_SIGGF AG_MG_MG_MG_SIGGF AG_MG_MG_MG_MG_MG_SIGGF AG_MG_MG_MG_MG_MG_MG_SIGGF AG_MG_MG_MG_MG_MG_MG_MG_MG_MG_MG_MG_MG_MG		WQRPLVKVKI	GGQLKEALLD		TMT. DCKWKPK	MIGGIGGETK
AD_SE_SE69 AD_SE_SE71 AD_SE_SE71 AD_K_OP_STATE ADHK_NO_97 ADK_CD_MAL AG_BE_VIII AGGVLKEALLD AG_BE_VIII AGGVLYTVKI AGGVLKEALLD AGGNG_92NG AGHU_GA_VI AGGVLYTVKI AGGVLIEALLD AGGVLCD_Z32 AGGU_CD_Z32 AGGVLYTVKI AGGVLYTVKI AGGVLYTVKI AGGVLYTVKI AGGVLYTVKI AGGVLYTVKI AGGVLYTVKI AGGVLYTVKI AGGVLYTVKI AGGVLYTVKI AGGVLYTVKI AGGVLYTVKI AGGVLYTVKI AGGVLYTVKI AGGVLYTVKI AGGVLYTVKI AGGVLYTVKI AGGVLYTVKI AGGVLYTVKI AGGVLYTVKI AGGVLYTVKI AGGVLKEALLD AGGVKEALLD AGGVKEALLD AGGVKEALLD AGGVKEALLD AGGVKEALLD AGGVKEALLD AGGVLKEALLD AGGGF AGGVLKEALLD AGGVLKEALLD AGGVLKEALLD AGGVLKEALLD AGGVLKEALLD AGGVLKEALLD AGGVLKEALLD AGGVLKEALLD AGGVLKEALLD AGGVLKEALLD AGGGF AGGVLKEALLD AGGVLKEALLD AGGVLKEALLD AGGVLKEALLD AGGGF AGGVLKEALLD AGGGVLKEALLD AGGGF AGGVLKEALLD AGGGVLKEALLD AGGDTVLEE AGADDT	ACG_BE_VI1	WQRPLVTVRL	GGQLIEALLD		TNI.DCPWKPK	MIGGIGGFIK
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ADHK NO 97 ADK_CD_MAL AG_BE_VII1 AG_BE_VII1 AG_NG_92NG AGHU_GA_VII AGUCD_Z32 AJ_BW_BW21 B_AU_VH_AF B_CN_RL42_B_DE_DAJ1_U B_FR_HXB2_B_GB_GA_OYI B_GB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB_CAM1_BGB	AD_SE_SE71	WQRPLVTVKI	GGOLKEALLD	TGADDTVIED	TAIL DOMESTIC TO	MIGGIGGFIK
AG_BE_V111 AG_BE_V111 AG_NG_92NG AG_NG_92NG AGHU_GA_VI AGQ_NG_BE_V1VTVKI AGQ_NG_PIVTVKI AGQ_NG_PIVTVKI AGQ_NG_PIVTVKI AGQ_NG_NG_PIVTVKI AGQ_NG_NG_PIVTVKI AGQ_NG_NG_NG_NG_NG_NG_NG_NG_NG_NG_NG_NG_NG_	ADHK NO 97	WORPVVTVKV	GGOLKEALLD		TNTEGKMKEK	MIGGIGGFIK
AG_BE_VII1 WQRPLVTVRI GGQLIEALLD TGADDTVLEE INLDGKWKPK MIGGIGGF MGHU_GA_VI WQRPLVTVKI GGQLIEALLD TGADDTVLEE INLLGKWKPK MIGGIGGF MGHU_GA_VI WQRPLVTVKI GGQLIEALLD TGADDTVLEE INLLGKWKPK MIGGIGGF MGHU_GA_VI WQRPLVTIKI GGQLKEALLD TGADDTVLEE INLLGKWKPK MIGGIGGF MGHU_GA_VI WQRPLVTIKI GGQLKEALLD TGADDTVLEE MCLPGRWKPK MIGGIGGF MGHU_GA_VI WQRPLVTIKI GGQLKEALLD TGADDTVLEE MGLPGRWKPK MIGGIGGF MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUGH MGHUH MGHUGH MGHUGH MGHUGH M		WORPVVTVRV	GGOLKEALLD	TGWDD TATED	MNLPGKWKPK	MIGGIGGFIK
AG_NG_92NG AG_NG_92NG AGHU_GA_VI AGU_CD_Z32 AJ_BW_EW21 B_AU_VH_AF B_CN_RL42_ B_DE_D31_U B_FR_HXB2_ B_GA_OYI_ B_GB_CAMI_ B_GB_CAMI_ B_GB_CBB_A B_GB_CB_A B_GB_CB_A B_GB_CB_A B_GB_CB_A B_GB_CB_A B_CB_CB_CB_CB_A B_CB_CB_CB_CB_CB_CB_CB_CB_CB_CB_CB_CB_CB		WORPLVTVRT	GGOLTENLID	IGADDIAL FE	INLPGKWKPK	MIGGIGGFIK
AGHU_GA_VI AGU_CD_Z32 WQRPIVTVKI GGQLIEALLD TGADDTVLEE MLLPGKWKPK MIGGIGGF TGADDTVLEE INLLGKWKPK MIGGIGGF TGADDTVLEE INLLGKWKPK MIGGIGGF TGADDTVLEE INLLGKWKPK MIGGIGGF TGADDTVLEE MELPGKWKPK MIGGIGGF TGADDTVLEE MELPGKWKPK MIGGIGGF TGADDTVLEE MELPGKWKPK MIGGIGGF MCLPGRWKPK MIGGIGGF MCLPGRWCPL MCLPGRWCPL MCLPGRWCPL MCLPGRWCPL MCLPGRWCPL MCLPGRWCPL MCLPGRWCPL MCLPGRWCPL MCLPGRWCPL MCLPGR		MORDIATION	CCOLTEXITE		ISLPGKWKPK	MIGGIGGFIK
AGU_CD_Z32  AJ_BW_BW21  B_AU_VH_AF  B_CN_RL42_ WQRPLVTIKI GGQLKEALLD  B_DE_D31_U WQRPLVTIKI GGQLKEALLD  B_DE_HAN_U WQRPLVTIKI GGQLKEALLD  B_GB_CAM1_ WQRPLVTIKI GGQLKEALLD  B_GB_GB_A WQRPLVTIKI GGQLKEALLD  B_GB_GB_A WQRPLVTIKI GGQLKEALLD  B_GB_MANC_ B_GB_MANC_ B_GB_KR WQRPLVTIKI GGQLKEALLD  B_CB_MANC_ B_GB_MANC_ B_CB_KR WCAFF  B_NL_3202A WQRPLVTIKI GGQLKEALLD  B_TW_TWCYS B_US_DH123  B_US_DH123  B_US_DRCSF  B_US_PR96  WQRPLVTIKI GGQLKEALLD  GGQLKEALLD  GGQLKEALLD  GGQLKEALLD  GGQLKEALLD  GGQLKEALLD  TGADDTVLEE  TGADDTVLEE  MCLPGRWKPK MIGGIGGF  TGADDTVLEE  MCLPGRWKPK MIGGIGGF  TGADDTVLEE  MCLPGRWKPK MIGGIGGF  TGADDTVLEE  MCLPGRWKPK MIGGIGGF  TGADDTVLEE  MCLPGRWKPK MIGGIGGF  TGADDTVLEE  MCLPGRWKPK MIGGIGGF  TGADDTVLEE  MCLPGRWKPK MIGGIGGF  TGADDTVLEE  MCLPGRWKPK MIGGIGGF  TGADDTVLEE  MCLPGRWKPK MIGGIGGF  MCLPGRWKPK MIGGIGGF  TGADDTVLEE  MCLPGRWKPK MIGGIGGF  MCLPGRWKPK MIGGIGGF  TGADDTVLEE  MCLPGRWKPK MIGGIGGF  MCLPGRWKPK MIGGIGGF  MCLPGRWKPK MIGGIGGF  MCLPGRWKPK MIGGIGGF  MCLPGRWKPK MIGGIGGF  MCLPGRWKPK MIGGIGGF  MCLPGRWKPK MIGGIGGF  MCLPGRWKPK MIGGIGGF  MCLPGRWKPK MIGGIGGF  MCLPGRWKPK MIGGIGGF  MCLPGRWKPK MIGGIGGF  MCLPGRWKPK MIGGIGGF  MCLPGRWKPK MIGGIGGF  MCLPGRWKPK MIGGIGGF  MCLPGRWKPK MIGGIGGF  MCLPGRWKPK MIGGIGGF  MCLPGRWKPK MIGGIGGF  MCLPGRWKPK MIGGIGGF  MCPLVTIKI  MCADDTVLEE  MCLPGRWKPK MIGGIGGF  MCADDTVLEE  MCLPGRWKPK MIGGIGGF  MCPLVTIKI  MCADDTVLEE  MCLPGRWKPK MIGGIGGF  MCADDTVLEE  MCLPGRWKPK MIGGIGGF  MCPLVTIKI  MCADDTVLEE  MCADDTVLEE  MCADDTVLEE  MCLPGRWKPK MIGGIGGF  MCPLVTIKI  MCADDTVLEE  MCADDTVLEE  MCLPGRWKPK MIGGIGGF  MCPLVTIKI  MCADDTVLEE  MCADDTVLEE  MCLPGRWKPK MIGGIGGF  MCPLVTIKI  MCADDTVLEE  MCPLVTIKI  MCADDTVLEE  MCADDTVLEE  MCPLVTIKI  MCADDTVLEE  MCPLVTIKI  MCADDTVLEE  MCPLVTIKI  MCADDTVLEE  MCPLVTIKI  MCPLVTIKI  MCADDTVLEE  MCPLVTIKI  MCADDTVLEE  MCPLVTIKI  MCADDTVLEE  MCPLVTIKI  MCPLVTIKI  MCADDTVLEE  MCPLVTIKI  MCADDTVLEE  MCPLVTIKI  MCADDTVLEE  MCADDTVLEE  MCPLVTIKI  MCADDTVLEE  MCPLVTIKI  MCADDTVLEE  MCADDTVLEE  MCADDTVLEE  MCADTVLEA  MCADDTVLEE  MCADDTVLEE  MCADDTVLEE  MCADDTVLEE  MCADDTV		WODDI.VITYIT	GGOTTEATID	TGADDTVLEQ	INLPGKWKPK	MIGGIGGFIK
AJ BW BW21 B AU VH AF B CN RL42 B DE D31 U B DE HAN U B GRPLVTIKI GGQLKEALLD B GR GADOTVLEE B GR GAOYI B GR GAM1 B GR GB GB A B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B GR MANC B WQRPLVTIKI GGQLKEALLD B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B TW TWCYS B MU 3202A B MU 3202A B MU 3202A B MU 3202A B MU 3202A B MU 3202A B MU 3202A B MU 3202A B M		MUDDIAMAT	GGODIEST	TGADDTVLEE	INLLGKWKPK	MIGGIGGFIK
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B_DE_HAN_U WQRPLVTIKI GGQLKEALLD TGADDTVLEE MSLPGRWKPK MIGGIGGF MCRPLVTIKI GGQLKEALLD TGADDTVLEE MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKPK MIGGIGGF MSLPGRWKP		WORPLVTIKV	GGQLKEALLD	TGADDTVLED	MNLPGRWKPK	MIGGIGGETK
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B GB MANC WQRPLVTIKI GGQLKEALLD TGADDTVLEE MNLPGRWKPK MIGGIGGF MNL 3202A WQRPLVTIKI GGQLKEALLD TGADDTVLEE MNLPGRWKPK MIGGIGGF MOLPGRWKPK MIGGIGGF		WQRPLVTIKI	GGQLKEALLD	TGADDTVLEE	MNT.PGRWKDK	MICCICCEIN
B_KR_WK_AF WQRPLVAIKI GGQLKEALLD TGADDTVLEE MNLPGRWKPK MIGGIGGF: B_NL_3202A WQRPLVTIKI GGQLKEALLD TGADDTVLEE MNLPGRWKPK MIGGIGGF: B_US_BC_LO WQRPLVTIKI GGQLKEALLD TGADDTVLEE MNLPGRWKPK MIGGIGGF: B_US_DH123 WQRPLVTIKI GGQLKEALLD TGADDTVLEE MNLPGRWKPK MIGGIGGF: B_US_JRCSF WQRPLVTIKI GGQLKEALLD TGADDTVLEE INLPGKWKPK MIGGIGGF: B_US_MNCG WQRPLVTIKI GGQLKEALLD TGADDTVLED MDLPGRWKPK MIGGIGGF: B_US_P896 WQRPLVTIKV GGQLKEALLD TGADDTVLEE MNLPRRWKPK MIGGIGGF: MNLPRRWKPK MIGGIGGF: MNLPRRWKPK MIGGIGGF: MNLPRRWKPK MIGGIGGF: MNLPRRWKPK MIGGIGGF: MNLPRRWKPK MIGGIGGF: MNLPRRWKPK MIGGIGGF: MNLPRRWKPK MIGGIGGF: MNLPRRWKPK MIGGIGGF: MNLPRRWKPK MIGGIGGF: MNLPRRWKPK MIGGIGGF: MNLPRRWKPK MIGGIGGF: MNLPRRWKPK MIGGIGGF: MNLPRRWKPK MIGGIGGF: MNLPRRWKPK MIGGIGGF: MNLPRRWKPK MIGGIGGF: MNLPRRWKPK MIGGIGGF: MNLPRRWKPK MIGGIGGF: MNLPRRWKPK MIGGIGGF: MNLPRRWKPK MIGGIGGF: MNLPRRWKPK MIGGIGGF: MNLPRRWKPK MIGGIGGF: MNLPGRWKPK MIGGIGGF: MNLPRRWKPK MIGGIGG		WQRPIVTIKI	GGQLKEALLD	TGADDTVLED	MNI DGBMKDK	MICCICCEIX
B_KR_WK_AF  WQRPLVAIKI GGQLKEALLD TGADDTVLEE MSLPGRWKPK MIGGIGGF:  WQRPLVTIKI GGQLKEALLD TGADDTVLEE MNLPGRWKPK MIGGIGGF:  WQRPLVTIKI GGQLKEALLD TGADDTVLEE MNLPGRWKPK MIGGIGGF:  WQRPLVTIKI GGQLKEALLD TGADDTVLEE MNLPGRWKPK MIGGIGGF:  WQRPLVTIKI GGQLKEALLD TGADDTVLEE INLPGKWKPK MIGGIGGF:  WQRPLVTIKI GGQLKEALLD TGADDTVLEE MNLPGRWKPK MIGGIGGF:  WQRPLVTIKI GGQLKEALLD TGADDTVLED MDLPGRWKPK MIGGIGGF:  WQRPLVTIKI GGQLKEALLD TGADDTVLED MNLPRRWKPK MIGGIGGF:  WQRPLVTIKI GGQLKEALLD TGADDTVLED MNLPRRWKPK MIGGIGGF:		WQRPLVTIKI	GGQLKEALLD	TGADDTVIER	MMT.DCDWVDV	MICCICCEIX
B_NL_3202A WQRPLVTIKI GGQLKEALLD TGADDTVLEE MNLPGRWKPK MIGGIGGF: B_US_BC_L0 WQRPLVTIKI GGQLKEALLD TGADDTVLEE MNLPGRWKPK MIGGIGGF: B_US_DH123 WQRPLVKIKI GGQLKEALLD TGADDTVLEE MNLPGRWKPK MIGGIGGF: B_US_JRCSF WQRPLVTIKI GGQLKEALLD TGADDTVLEE INLPGKWKPK MIGGIGGF: B_US_MNCG WQRPLVTIKI GGQLKEALLD TGADDTVLED MDLPGRWKPK MIGGIGGF: B_US_P896 WQRPLVTIKV GGQLKEALLD TGADDTVLED MNLPRRWKPK MIGGIGGF:		WQRPLVAIKI		TGADDTVI.EP	MGI.DGDWYDY	MIGGIGGFIK
B_TW_TWCYS WQRPLVTIRI GGQLKEALLD TGADDTVLEE MNLPGRWKPK MIGGIGGF: B_US_BC_L0 WQRPLVTIKI GGQLKEALLD TGADDTVLEE MNLPGRWKPK MIGGIGGF: B_US_DH123 WQRPLVKIKI GGQLKEALLD TGADDTVLEE INLPGKWKPK MIGGIGGF: B_US_MNCG WQRPLVTIKI GGQLKEALLD TGADDTVLED MDLPGRWKPK MIGGIGGF: B_US_MNCG WQRPLVTIKI GGQLKEALLD TGADDTVLGE MNLPRRWKPK MIGGIGGF: B_US_P896 WQRPLVTIKV GGQLKEALLD TGADDTVLED MSLPCRWKPK MIGGIGGF:	B_NL_3202A	WQRPLVTIKI		TGADDTVITED	WILD CDISSESSES	MIGGIGGFIK
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B_US_JRCSF WQRPLVTIKI GGQLKEALLD TGADDTVLED MDLPGRWKPK MIGGIGGF: B_US_MNCG WQRPLVTIKI GGQLKEALLD TGADDTVLGE MNLPRRWKPK MIGGIGGF: B_US_P896 WQRPLVTIKV GGQLKEALLD TGADDTVLED MSLPCRWKPK MIGGIGGF:		WORPLVKTKT		からなりりからなる ~~	TALL PGRWKPK	MIGGIGGFIK
B_US_MNCG WQRPIVTIKI GGQLKEALLD TGADDTVLED MDLPGRWKPK MIGGIGGF: B_US_P896 WQRPLVTIKV GGQLKEALLD TGADDTVLED MSLPCRWKPK MIGGIGGF:		WORPT.VTTKT		TGWDDTAFE	TUTEGKMKEK	MIGGIGGFIK
B_US_P896 WQRPLVTIKV GGQLKEALLD TGADDTVLED MSLDCBUKDY MIGGIGGF		MORDIALIKI	GGÖTVEYTID	TGADDTVLED	MDLPGRWKPK	MIGGIGGFTK
TGADDTVILLA GGULKEALLD TGADDTVILED MCI.DCDWVDV MTGGTGGT		MUDDI/maras	GGGTVRYTTD	TGADDTVLCE	MAT. DDDGGCDC.	MTGGTGGTT
"YKFIVIVAL GGQLKEALLD TGADDTVLEE MNLPGKWKPK MIGGIGGF		MUDDLIMMANA	GGOTKEATTD	TGADDTVIT.ED	MCI.DCDWwnw .	WTGGTGG
	-"^^"vr	"AVETATATI	GGÖTKRYTTD	TGADDTVLEE	MNLPGKWKPK	MIGGIGGFIK

B_US_SF2_K	WQRPLVTIRI	GGQLKEALLI	TGADDTVI.R	MNLPGKWKPK	MICGIGGDZ
B_US_WEAU1					
B_US_WR27_	COKPLANTKI	GGQIKEALLI	TGADDTVAT.Ext	MCT DODLITERY	MICCICCET
B_US_YU2_M		· COCHIGHIII	) TISALNYIWI.DC	7 3/377 TO/1991,772	MIGGIGGFIK
BF1_BR_93B	MOKPLATAKI	- GGOLKEALLT	מים. דעדייינות באד (	TAIT DOWNSTRA	MIGGIGGFIK
C_BR_92BR0	MOKEPANIKA	GGQLKEALLI	TGADDTOTA	TVI DONESTEDE	MIGGIGGFIK
C_BW_96BW0	MOKPLASIKA	GGOIREALLT	יים זגיייירות בייי (ב	TATE DOVERNMENT	
C_BW_96BW1	MOKBLASIKA	GGOIKEAT.T.	יים דעייירונעטיי (	TITT DOISE	
C_BW_96BW1					
C_BW_96BW1					
C_ET_ETH22					
C_IN_93IN1		COCTUBATION	ι 13.4ΔΙΠΥΙΌΙ.Ο:	TATE TO STORE THE	***
C_IN_93IN9					
C_IN_93IN9	F DTT/	GGOTKENTIL	ι τα φαιπανατ.στ	TATE TO CARETER VA	<b>*</b>
C_IN_94IN1		COCTUENTING	. Τ <b>Ι</b> +ΔΙΠΡΙΜΙ ΦΕ	TATE TO PERSON OF	2 / T2
C_IN_95IN2			11.44111111111111	TICE DOWNERS TO THE	1/T
CRF01_AE_C	WQRPLVTVKI	EGOLKEALLD	TGADDTVITGADT	INLPGRWKPK	MIGGIGGFIK
CRF01_AE_C	WQRPLVTVKV	GGOLKEALLD	TGADDTVLED	INDPGRWKPK	MIGGIGGFIK
CRF01_AE_C	WQRPIVTVKI	GGOLKEALLD	TGADDTVLED		MIGGIGGFIK
CRF01_AE_T	WQRPLVTVKI	GGOLKEALLD	TGADDTVLED		MIGGIGGFIK
CRF01_AE_T	WQRPLVTVKI	GGOLKEALLD	TGADDIVLED		MIGGIGGFIK
CRF01_AE_T	WQRPLVTIKI	GGQLKEALLD		INLPGKWKPK	MIGGIGGFIK
CRF01_AE_T	WQRPLVTVKI	GGELKEALLD	TGADDIVLED	INLPGKWKPK	MIGGIGGFIK
CRF01_AE_T	WQRPLVTVKI	GGQLKEALLD	TGADDTVLED		MIGGIGGFIK
CRF01_AE_T	WQRPLVTVKI	GGQLKEALLD	TGADDTVLED		MIGGIGGFIK
CRF02_AG_F	WQRPLVTVKI	GGQLIEALLD	TGADDIVLEE		MIGGIGGFIK
CRF02_AG_F	WQRPLVTVRI	GGQLIEALLD	TGADDTVLEE		MIGGIGGFIK
CRF02_AG_G	WQRPLVTVRI	GGQLIEALLD	TGADDIVLED		MIGGIGGFIK
CRF02_AG_N	WQRPLVTVRI	EGQLIEALLD	TGADDIVLED		MIGGIGGFIK
CRF02_AG_S	WQRPLVTVKI	GGQLIEALLD	TGADDTVLEE	INLPGKWKPK	MIGGIGGFIK
CRF02_AG_S	WQRPLFTVRI	EGQLIKALLD	TGANDTVLEK		MIGGIGGFIK
CRF03_AB_R	WRRPLVTVRI	GGQLKEALLD	TGADDTVLED		MIGGIGGFIK
CRF03_AB_R	WQRPLVTVRI	GGQLKEALLD	TGADDIVLED	INLPGKWKPK	MIGGIGGFIK
CRF04_cpx_	WQRPLVTIKL	GGQIREALLD	TGADDIVLEE	INLPGKWKPK	MIGGIGGFIK
CRF04_cpx	WQPPLVTIKI	GGOIREALLD	TGADDTVLED	INLPGKWKPK	MIGGIGGFIK
CRF04_cpx_	WQRPLVTIKI	GGOLREALLD	TGADDTVLEE	INLPGKWKPK	MIGGIGGFIK
CRF05_DF_B	WQRPVVTIRI	GGOLKEALLD	TGADDIVLED	INLPGRWKPK	MIGGIGGFIK
CRF05_DF_B	WQRPVVTIKI	EGOLKEALLD	TOWND TOWNS	INLPGKWKPK	MIGGIGGFIK
CRF06_cpx_	WQRPLVTVRI	GGQLIEALLD	TCADDIVITED	MNLPGKWKPK	MIGGIGGFIK
CRF06_cpx_	WQRPLVTVRI	GGOLTEALLD	TGADDTVLED	INLPGKWKPK	MIGGIGGFIK
CRF06_cpx	WQRPLVTVGI	EGOLIEALLD	TOYDDIAN ED	INLPGKWKPK INLPGKWKPK	MIGGIGGFIK
CRF06_cpx_	WQRPLVTVKV	GEQLIEALLD	TOWN TOWNS	INLPGKWKPK	MIGGIGGFIK
CRF11_cpx_	WQRPIVKIKV	AGOLKEALLD	TOADOT VIEW	INLPGRWKPK INLPGRWKPK	MIGGIGGFIK
CRF11_cpx_	WQRPVVPVKV	AGOLKEALLD	TGADDIVITEE	MOT DODUMENT	MIGGIGGFIK
D_CD_84ZR0	WQRPVVTIKI	GGOLKEALLD	TGADDIVLED	MSLPGRWKPK	MIGGIGGFIK
D_CD_ELI_K	WQRPLVAIKI	GGOLKEALLD			MIGGIGGFIK
D_CD_NDK_M	WQRPLVTIKI	GGOLKEALLD	TGADDTVLEE	MNLPGKWKPK	MIGGIGGFIK
D_UG_94UG1	WQRPVVTVKI	GGOLKEALLD	TGADDTVLEE	INLPGKWKPK	MIGGIGGFIK
F1_BE_VI85	WQRPLVTIKI	GGOIKEALLD	TGADDIVLED	INLPGKWKPK	MIGGIGGFIK
F1_BR_93BR	WQRPLVTIRV			INLPGKWKPK	MIGGIGGFIK
F1_FI_FIN9	WQRPLVTIKI		TGADDIVLED	VNLPGKWKPK I	MIGGIGGFIK
F1_FR_MP41	WQRPLVTIRV			INLPGKWKPK I	MIGGIGGFIK
F2 CM MP25	WQRPVVTIKV			IDLPGKWKPK	IIGGIGGFIK
F2KU_BE_VI	WQRPIVTIKI		TGADDTVLED TGADDTVLED	INLPGKWKPK I	MIGGIGGFIK
G_BE_DRCBL	WQRPIVKVRI		_	INLPGKWKPK N	MIGGIGGFIK
G_NG_92NG0	WQRPLVTVKI		TGADDTVLEE	IDLPGKWKPK M	MIGGIGGFIK
G_SE_SE616	WQRPLVTVKI		TGADDTVLEG	INLPGKWKPK N	MIGGIGGFIK
H_BE_VI991	WQRPIVTVKI		TGADDTVLEE	INLPGRWKPK N	/IGGIGGFIK
H_BE_VI997	WQRPLVTVKI		TGADDTVLED	INLPGKWKPK N	MIGGIGGFIK
H_CF_90CF0	WQRPLVTVKI		TGADDTVLEE	INLLGRWKPK N	MIGGIGGFIK
J_SE_SE702	WQRPLVTIRI	GGOLPEATIL	TGADDTVLEE	INLPGKWKPK N	IIGGIGGFIK
- <b>-</b>		5-4/11UIII	TGWDDIATER	IDLPGKWKPK N	IIGGIGGFIK

J SE SE788	WQRPLVTIRI	CCOLDENT.I.D	TO A D D TO THE TO THE	TD: 50:00:00:00	
K CD EQTB1	WQRPVVTVKV		TGADDTVLEE TGADDTVLEE		MIGGIGGFIK
K_CM_MP535	WQRPIVTIKV				MIGGIGGFIK
N CM YBF30	WQRPVITVKI	GKEVREALLD	TGADDTVLEE		MIGGIGGFIK
O CM ANT70	WDRPIVTARV		TGADDTVLNN	LQLEGKWKPK	
O CM MVP51	WDRPIVTAKV	GGHLCEALLD	TGADDTVLNN		MIGGIGGFIK
O SN 99SE	WDRPVVTARV	GGHLCEVLLD			MIGGIGGFIK
O_SN_99SE_	WDRPIVPARV	GGHLCEVLLD	TGADDTVLTN		MIGGIGGFIK
U CD 83C	WQRPLVTVKI	GGQLKEALLD	TGADDTVLNN		MIGGIGGFIK
0_0030	MONTHAIANT	GGGTKEWITID	TGADDTVVEE	MTLPGKWKPK	MIGGIGGFIK
	151				200
00BW0762_1	VRQYDQILIE	ICGKRAIGTV	LVGPTPVNII	GRNMLTOLGC	200 TLNFPISPIE
00BW0768 2	VRQYDQILIE	ICGKKAIGTV		GRNMLTOLGC	
00BW0874 2	VRQYDQILIE	ICGKKAIGTV		GRNMLTQLGC	TLNFPISPIE TLNFPISPIE
00BW1471 2	VRQYDQIVIE	ICGKKAIGSV		GRNMLTOLGC	TLNFPISPIE
00BW1616 2	VRQYDQIPIE		LVGPTPVNII	GRNMLTQLGC	TLNFPISPIE
00BW1686 8	VRQYDQISIE		LVGPTPVNII	GRNMLTQLGC	TLNFPISPIE
00BW1759 3	VRQYDQIPIE	ICGKKAIGTV		GRNMLTQLGC	TLNFPISPIE
00BW1773_2	VRQYDQISIE		LVGPTPVNII	GRNMLTQLGC	TLNFPISPIE
00BW1783 5	VRQYDQILIE	ICGKKAIGSV		GRNMLTQLGC	TLNFPISPIE
00BW1795 6	VRQYDHIPIE		LVGPTPVNII	GRNMLTQLGC	ILNFPISPIE
00BW1811 3	VRQYDEILIE		LVGPTPVNII	GRNMLTOLGC	TLNFPISPIE
00BW1859 5	VRQYDQILIE	ICGKKAIGTV	LVGPTPVNII	GRNMLTQLGC	TLNFPISPIE
00BW1880 2	VRQYDQILIE	ICGKRAMGTV		GRNLLTQLGC	TLNFPISPIK
00BW1921 1	VRQYDQITIE		LVGPTPVNII	GRNMLTQLGC	TLNFPISPIE
00BW2036 1	VRQYDQIPIE	ICGKKAIGTV		GRNMLTQLGC	TLNFPISPIE
00BW2063 6	VRQYDQIPIE	ICGKKAIGTV		GRNMLTOLGC	TLNFPISPIE
00BW2087 2	VRQYDQILIE	ICGKKAIGTV	LIGPTPVNII	GRNMLTQLGC	TLNFPISPIE
00BW2127 2	VRQYDQVVIE	ICGKKTIGTV		GRNLLTQLGC	TLNFPISPIE
00BW2128 3	VRQYDEIPIE		LVGPTPVNII	GRNMLTQLGC	TLNFPISPIE
00BW2276 7	VRQYDQILIE	ICGKKAIGTV	LIGPTPVNII	GRNMLTQLGC	TLNFPISPIE
00BW3819 3	VRQYEQVPIE	ICGKKAIGTV	LVGPTPANII	GRNLLTQLGC	TLNFPISPIE
00BW3842 8	VRQYDQIVIE	ICGKKAIGTV	LIGPTPVNII	GRNMLTOLGC	TLNFPISPIE
00BW3871_3	VRQYEQIPIE	ICGKKAIGTV		GRNMLTQLGC	TLNFPISPIE
00BW3876_9	VRQYDQILVE	ICGKKAIGTV		GRNMLTQLGC	TLNFPISPIE
00BW3886_8	VRQYDQIPIE	ICGKKAIGTV	LVGPTPVNII	GRNMLTQLGC	TLNFPISPIE
00BW3891 <u>6</u>	VRQYDQIAIE	ICGKKAIGTV	LVGPTPVNII	GRNMLTQLGC	TLNFPISPIE
00BW3970_2	VRQYDQILIE	ICGKKAIGTV	LVGPTPVNII	GRNMLTOLGC	TLNFPISPIE
00BW5031 <u></u> 1	VRQYDQIMIE	ICGQKAIGTV	LVGPTPVNII	GRNMLTQLGC	TLNFPISPIE
96BW01B21	VRQYDQILIE	ICGKKAIGTV		GRNMLTOLGC	TLNFPISPIE
96BW0407	VRQYEQILIE	ICGKKTIGTV	LVGPTPVDII	GRNMLTQLGC	TLNFPISPIE
96BW0502	VRQYDQIVIE	ICGKKAIGTV	LVGPTPVNII	GRNMLTOLGC	TLNFPTSPTE
96BW06_J4	VRQYDQIPIE	ICGKKAIGTV	LIGPTPVNII	GRNMLTOLGC	TLNFPISPIE
96BW11_06	VRQYDQIPIE	ICGKKAIGTV	LVGPTPVNII	GRNLLTQLGC	TLNFPISPIE
96BW1210	VRQYDQIVIE	ICGKKAIGSV	LVGPTPVNII	GRNMLTQLGC	
96BW15B03	VRQYDQILIE	ICGKKAIGTV		GRNMLTQLGC	
96BW16_26	VRQYDQITIE		LVGPTPVNII	GRNLLTQIGC	TLNFPISPIE
96BW17A09		ICGKKAIGTV		GRNMLTQLGC	TLNFPISPIE
96BWM01_5		ICGKRAIGTV		GRNMLTQLGC	TLNFPISPIE
96BWM03_2		ICGKKAIGTV		GRNMLTQLGC	TLNFPISPIE
98BWMC12_2		ICGKKAIGTV		GRNMLTQLGC	TLNFPISPIE
98BWMC13_4		ICGKRAIGTV		GRNMLTQLGC	TLNFPISPIE
98BWMC14_a		ICGKKAIGTV		GRNMLTQLGC	TLNFPISPIE
98BWM014_1		ICGKKAIGTV		GRNMLTQLGC	
98BWM018_d		ICGKKAIGTV		GRNMLAQLGC	
98BWMO36_a		ICGKKAIGTV		GRNMLTQLGC	TLNFPISPIE
98BWM037_d		ICGKKAIGTV		GRNMLTQLGC	TLNFPISPIE
99BW3932_1		ICEKKTIGTV		GRNLLTQLGC	
99BW4642_4		ICGKKAIGTV		GRNMLTQLGC	
99BW4745_8		ICGKKAIGTV		GRNMLTOLGC	
99BW4754_7	VRQYDQIHIE	ICGKRAIGTV	LVGPTPVNII	GRNMLTQLGC	

000101011					
99BWMC16_8	VRQYDQILII	ICGKKAIGT	V LVGPTPVNI	I GRNMI.TPI.G	C TLNFPISPIE
A2_CD_97CD					
A2_CY_94CY					
A2D97KR	*********	2 TODKKAI(*)!	V I.WCDMINT <del>T</del>	T ODINGE	
A2G_CD_97C	*************	TOCKVAICH	ノ てびごひかわておす	T GDIRG	
A_BY_97BL0	ANGIDGIDAL	TCVVVVAIX	/ INCOPONT	T WENTER TO THE	
A_KE_Q23_A	***********	TCGVVAI(*)	ノ じひにひかりかき	T ODING	
A_SE_SE659	***********	LCGVVVIII	/ 1.17/2.040101017	T 00100	
A_SE_SE725	*************	TCGVVVIII	/ 137620003037	T 00100	
A_SE_SE753	AVATDAATE	TCGVKA ICALA	/ 1.17/210/2011/11 /	T 00100	
A_SE_SE853	AVGIDGISTE	* TCGKKATGT	/ バルグロかわされて	T COLDET TOTAL	
A_SE_SE889	************	LCGVVVIII	/ TAVADITION TO TAKE	T 003047-0	
A_SE_UGSE8	AVGIDGIDIE	TCGKKA1G III	דאתום שומבו 1.17.7	T CIDARAT MARKET	
A_UG_92UG0	AWATDATHTE	· TCGVKATGJ./	/ T.V.C.D.D.D.V.T. /	T CIDARAT DE	
A_UG_U455_	▲ YY Ŏ T D Ŏ T D T D	TCGKKTTGT	TAMCOTOLATE	T (17) 77 (7 man	
AC_IN_2130	AWATDATATE	TCGVVATGT	T.W.C.D.TOTATT	T CIDARUT MOT	
AC_RW_92RW	A ************************************	TCGKKAIGIL	<i>Γ.Υ//</i> ΕΡΤΟΥΜΥΤ	T CIDATACE MAN-	
AC_SE_SE94	AKÖADÖTPÍE	ICGKKATGTV	TANCOTOTALT	T CDIMET	
ACD_SE_SE8	AKÖXDÖTPAE	ICGHKATGTV	ידומוסיים T.WC דומו	T ODATE TOOL	
ACG_BE_VI1	VRQYDQIMIE	ICGKKATGT	TAGETEANT.	I GRNLLTQIGC I GRNMLTQIGC	
AD_SE_SE69	VRQYDOILIE	ICGYKATGTV	TAGELEANT.	L GRNMLTQIGC L GRNLLTQIGC	
AD_SE_SE71	VKQYDOILIE	ICGKKATGTU	TAGELLANT.	L GRNLLTQIGC [ GRNMLTQIGC	
ADHK_NO_97	VROYDXILIE	ICGKKATGTV	TAGETEVNT.	I GRNMLTQIGC [ GRNMLTQIGC	
ADK_CD_MAL	VRQYDOILIE	ICGKKATGTT	TAGPIPVNI	L GRNMLTQIGC [ GRNMLTQIGC	
AG_BE_VI11	VRQYDOILIE	ICGKKATGTV	INCOMPANT	L GRNMLTQIGC [ GRNMLTQIGC	
AG_NG_92NG	VKQYDOILIE	IEGKKATGTV	TACDUDIA	GRNMLTQIGC GRNMLTQIGC	
AGHU GA VI	VROYDOVPIE	ICCKKATCTV	TACDMD TATE	GRNMLTQIGC GRNMLTQIGC	
AGU_CD_Z32	VROYDOILTE	TGEKRATGTV	TAGELETMI	GRNMLTQIGC GRNILTQIGC	
AJ_BW_BW21	VROYNDIHIE	VEGKKAVGTW	TACOMOTATA	GRNILTQIGC GRNMLTQLGC	TLNFPISPIE
B_AU VH AF	VROYDOVLVE	TCGHKATGmy	TIGETETMIT	GRNMLTQLGC GRNLLTQLGC	TLNFPISPIT
B_CN_RL42	VRQYDOIPIE	ICCHKATCTW	PAGPADADA	GRNLLTQLGC GRNLLTQLGC	TLNFPISPIE
B_DE_D31 U	VROYDOILIE	TCGHKATGTW	TAGDADIBIT	GRNLLTQIGC	TLNFPISPIK
B_DE_HAN_U	VRQYDQILVE	ICCHKATCTV	TAGSTSAMTI	GRNLLTQIGC	TLNFPISPIE
B_FR_HXB2	VROYDOILIE	TCGHKATGTV	TAGDIDIDIZZ	GRNLLTQIGC GRNLLTQIGC	TLNFPISPIE
B_GA_OYI	VROYDOILIE	TCGHKATGTV	TAGDUDIDATA	GRNLLTQIGC GRNLLTQLGC	TLNFPISPIE
B_GB_CAM1	VRQYDQIPIE	ICCHKATCTV	TAGELEANTT	GRNLLTQLGC GRNLLTQIGC	
B GB GB8 A	VKQYDQILVE	ICGHKATGTV	TAGELEANTT	GRNLLTQIGC GRNLLTQLGC	TLNFPISPIE
B_GB_MANC	VRQYDOILIE	ICCHKAICTV	TACDEDIDITAL	GRNLLTQLGC	TLNFPISPIE
B KR WK AF	VROYDOVAIE	ICCHKATCTV	PAGELEANT	GRNLLTQIGC GRNLLTQIGC	TLNFPISPIE
B_NL_3202A	VROYDOIPIE	TCGHKATGTV	TIGHTPVNII	GRNLLTQIGC	TLNFPISPIE
B_TW_TWCYS	VROYDOIPIE	TCGHKATGTV	PAGELEANII	GRNLLTQIGC	TLNFPISPIE
B_US_BC_L0	VROYDOIPIE	TCGHKATGTV	PAGELEANII	GRNLLTQIGC	TLNFPISPID
B_US_DH123					
B US JRCSF					
B_US_MNCG_	VROYDOITIG	TCGHKATCTT	TAGALAANTI	GRNLLTQIGC GRNLLTQIGC	TLNFPISPIE
B_US_P896					
B_US_RF_M1	VROYDOILIE	TCGHKATCTV	PAGELEANIT	GRNLLTQLGC	TLNFPISPIE
B_US_SF2 K					
B_US_WEAU1					
B_US_WR27					
B_US_YU2 M					
BF1 BR 93B					
C_BR 92BR0					
C_BW_96BW0					
C_BW_96BW1					
C_BW_96BW1					
C_BW_96BW1					
C_ET_ETH22					
C_IN_93IN1					
	VRQYDQIPIE :	OIGHTGIV	MAGELEANII	GRNLLTQLGC '	TLNFPISPIE

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C_IN_94IN1 VRQYDQIPIE ICGKKAIGTV LVGPTPVNII GRNMLTQLGC TLNFPISPIE
  C_IN_95IN2 VRQYEEIPIE ICGKKAIGTV LVGPTPVNII GRNMLTQLGC TLNFPISPIE
  CRF01_AE_C VRQYDQILIE ICGKRAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPID
  CRF01_AE_C VRQYDQILIE ICGKKAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPID
  CRF01_AE_C VRQYDQIIIE ICGKKAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPID
  CRF01_AE_T VRQYDQILIE ICGKKAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPID
  CRF01_AE_T VRQYDQILIE ICGKKAIGTV LVGPTPVNII GRNMLTQIGC TLNFPIS.PD
  CRF01_AE_T VRQYDQILIE ICGKKAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPID CRF01_AE_T VRQYDQILIE ICGKKAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPID
  CRF01_AE_T VKQYDQILIE ICGKKAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPID
  CRF01_AE_T VRQYDQILIE ICGKKAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPID
  CRF02_AG_F VRQYDQILIE ICGKKAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPIE
  CRF02_AG_F VRQYDQILIE ICGKKAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPIE
  CRF02_AG_G VRQYDQIPIE ICGKKAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPIE
  CRF02_AG_N VRQYDQILIE ICGKKAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPIE
  CRF02_AG_S VRQYDQILIE ICGKKAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPIE
  CRF02_AG_S LRQYDQILIE ICGKKAMGSV LVGPTPVNII GKNILTQIGC TLNFPISPIE
  CRF03_AB_R VRQYDQILIE ICGKKAIGTV LVGPTPVNII GRNMLTQLGC TLNFPISPIE
  CRF03_AB_R VRQYDQILIE ICGKKAIGTV LVGPTPVNII GRNMLTQLGC TLNFPISPIE
 CRF04_cpx_ VRQYDQIPIE ICGKKAIGTV LVGPTPVNII GRNMLTQLGC TLNFPISPIE
CRF04_cpx_ VKQYDQILIE ICGKKAIGTV LVGPTPVNII GRNLLTQIGC TLNFPISPIE
CRF04_cpx_ VRQYDQILIE ICGKKATGTV LVGPTPVNII GRNMLTQLGC TLNFPISPIE
CRF05_DF_B VRQYDQILVE ICGQKAIGTV LVGPTPVNII GRNLLTQIGC TLNFPISPIE
  CRF05_DF_B VRQYDQILIE ICGHKAVGTV LVGPTPVNII GRNLLTQIGC TLNFPISPIE
 CRF06_cpx_ VKQYDQILIE ICGKKAIGTV LVGPTPINII GRNMLTQIGC TLNFPISPIE CRF06_cpx_ VRQYDQILIE ICGKRAMGTV LVGPTPVNII GRNMLTQIGC TLNFPISPIE CRF06_cpx_ VRQYDQILIE ICGKRAMGTV LVGPTPVNII GRNMLTQIGC TLNFPISPIE CRF06_cpx_ VRQYDQIPIE ICGKRAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPIE CRF11_cpx_ VKQYEEIIIE IEGKKAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPID CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPID CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD CRF11_cpx_ VKQYEDITIE IEGKKAIGTV LIGPTPVNII GRNMLTQIGC TLNFPISPVD 
CRF11_cpx_ VKQYEEIIE IEGKKAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPID D_CD_84ZRO VRQYDHILIE ICGKKAIGTV LVGPTPVNII GRNLLTQIGC TLNFPISPIE D_CD_ELI_K VRQYDQIPIE ICGQKAIGTV LVGPTPVNII GRNLLTQIGC TLNFPISPIE D_CD_NDK_M VRQYDQIPIE ICGHKAIGTV LVGPTPVNII GRNLLTQIGC TLNFPISPIE D_UG_94UG1 VRQYDQIPIE ICGHKAIGTV LVGPTPVNII GRNLLTQIGC TLNFPISPIE F1_BR_93BR VKQYDNILIE ICGHKAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPIE F1_FI_FIN9 VKQYDQITIE ICGHKAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPIE F1_FR_MP41 VKQYDQITID ICGHKAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPIE F2_CM_MP25 VRQYDQVSIE ICGQKAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPIE F2_CM_MP25 VRQYDQVSIE ICGQKAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPIE GNG_92NGO VRQYDQVME ICGQKAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPIE GNG_92NGO VRQYDQVIIE IGGKKAIGTV LVGPTPVNII GRNMLTQIGC TLNFPISPIE TLNFPISPIE UVGPTPVNII GRNMLTQIGC TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE TLNFPISPIE 
 J_SE_SE788 VRQYNEVPIE IEGKKAIGTV LIGPTPVNII GRNMLTQLGC TLNFPISPIE
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 O_CM_ANT70 VKEYDNVTVE IEGREVQGTV LVGPTPVNII GRNILTGLGC TLNFPISPIA
 O_CM_MVP51 VKEYNNVTVE VQGKEVQGTV LVGPTPVNIL GRNILTGLGC TLNFPISPIA
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 00BW0874_2 TVPVKLKPGM DGPKVKQWPL TEEKIQALTA ICEEMEKEGK ITKIGPENPY
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00BW1616_2		, DGEVAVOMBI	<b>. TREKLIKAT.</b> T	7 775586556	
00BW1759_3		I DGEKVKUWPI	<b>ы пеккткат</b> л	7 77777847777	
00BW1733_3		DGEWAVOME	1 TROOK K   KAT.97	7 T/1553/555	
00BW1773_2					
00BW1783_5		DGEVAVONDI	> 'I'M: N'K FKAT.TI	7 TOTOTOMORE	
00BW1795_6		- DGEKVKUWPI	• THORK LKATON	7 T (1777) 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
		DOFKVKOWPI	1 TEMER LKALT	7	<b>_</b>
00BW1859_5		POPENVANME	1 TEKK LKATAY	7 TODONO	<del></del>
00BW1880_2		LAMOUANTED	• TERRICATION	T (71777877777777777777777777777777777777	
00BW1921_1					
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00BW2063_6		DGETATOME	• TEMENEK LIKAT.MY	7 TOTAL	
00BW2087_2					
00BW2127_2		DGERVRUMPI	. 'I'M:M'K FT//AT 1797	\	
00BW2128_3					
00BW2276_7					
00BW3819_3					
00BW3842_8					
00BW3871_3					
00BW3876_9					
00BW3886_8					
00BW3891 <u>6</u>					
00BW3970_2					
00BW5031_1		- POETV MOMPI	THERE IN A TOTA	TODDVorce	
96BW01B21					
96BW0407					
96BW0502					
96BW06_J4					
96BW11 <u>0</u> 6					
96BW1210					
96BW15B03					
96BW16_26					
96BW17A09					
96BWM01_5					
96BWM03_2					
98BWMC12_2					
98BWMC13_4					
98BWMC14_a	TIPVKLKPGM	DGPKVKOWPT.	TERKINATIA	ICEEMEKEGK	ITKIGPENPY
98BWM014_1					
98BWM018_d	TVPVKLKPGM	DGPKVKOWPT.	TEENTRALDA	ICEEMEKEGK	ITKIGPENPY
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98BWM037 d	TVPVKLKPGM	DGDKAKOMDI.	TEEVIKALIA	ICEEMEKEGK ICEEMEKEGK	ITKIGPENPH
99BW3932 <u></u> 1	TVPVKLKPGM	DGPKVKOWDT.	TEEKTKALTA	ICKEMEKEGK	ITKIGPENPY
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99BW4754_7	TVPXKLKPGM	DGDKVKOMDT.	TERVIKALIE	ICEEMEKEGK	ITKIGPENPY
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A2_CD_97CD	TVPVKLKPGM	DCDKAKOMDI	TEEKIKALTA	ICEEMEKEGK	IEKIGPENPY
A2 CY 94CY					
A2D97KR					
A2G_CD_97C					
A_BY_97BL0					
A_KE_Q23 A					
A_SE_SE659					
A_SE SE725					
A_SE_SE753					
A_SE_SE853					
A_SE_SE889					
A_SE_UGSE8					
A_UG_92UG0					
	TVPVKLKPGM I	AGENTKÓMBP .	<b>TEEKIKALTE</b>	ICADMEREGR ]	SKIGPENPY

A UG U455	אקמא. דאטמטיי	DCDKAKOMDI	MININTEN T mm		
AC IN 2130	TVFVICURPEN	DGBKAKOMDI	TEEKIKALTE	ICNEMEKEGK	ISKIGPENPY
AC RW 92RW	TVEVICEREGI	DGPKVKQWPL	TEEKIKALTA	ICDEMEKEGK	ISKIGPENPY
AC_RW_92RW AC SE SE94		DGPKVKQWPL		ICTEMEKEGK	
ACD_SE_SE8	TVPVKLKPGM		TEEKIKALTE	ICTDMEKEGK	
ACG_SE_SE0	TVPVKLKPGM		TEEKIKALIE		ISRIGPENPY
			TEEKIKALTD		ISKIGPENPY
AD_SE_SE69		DGPKVKQWPL	TEEKIKALTE		IARIGPENPY
AD_SE_SE71	TVPVKLKPGM		TEEKIKALTE		ISKIGPENPY
ADHK_NO_97	TVPVKLKPGM		TEEKIKALTE		ISKIGPENPY
ADK_CD_MAL	TVPVKLKPGM		TEEKIKALTE		ILKIGPENPY
AG_BE_VI11	TVPVKLKPGM		TEEKIKALTE	ICTEMEKEGK	
AG_NG_92NG		DGPKVKQWPL	TEEKIKALTE	ICTDMEKEGK	
AGHU_GA_VI		DGPKVKQWPL	TEEKIKALTE	ICNEMEQEGK	
AGU_CD_Z32		DGPKVKQWPL	TEEKIKALTE		ISKIGPENPY
AJ_BW_BW21		DGPRVRQWPL	TEEKIKALTE	IFTEMEKEGK	ISKIGPENPY
B_AU_VH_AF		DGPKVKQWPL	TEEKIKALVE	ICTEMEKEGK	ISKIGPENPY
B_CN_RL42_		${\tt DGPKVKQWPL}$	TEEKIKALVE	ICTEMEKEGK	ISKIGPENPY
B_DE_D31_U	TVPVKLKPGM		TEEKIKALVE	ICTEMEKEGK	ISKIGPENPY
B_DE_HAN_U	TVPVKLKPGM		TEEKIKALIE	ICTEMEKEGK	ISKIGPENPY
B_FR_HXB2_		DGPKVKQWPL	TEEKIKALVE	ICTEMEKEGK	
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B_GB_MANC_	TVPVKLKPGM		TEEKIKALVE	ICTEMEKEGK	
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B_US_BC_L0	TVPVKLKPGM	DGPKVKQWPL	TEEKIKALVE		ISKIGPENPY
B_US_DH123	TVPVKLKPGM	DGPRVKQWPL	SEEKIKALTE		ISKIGPENPY
B_US_JRCSF	TVPVKLKPGM	DGPKVKOWPL	TEEKIKALVE		ISKIGPENPY
B US MNCG	TVPVKLKPGM		TEEKIKALIE		ISKIGPENPY
B US P896	TVPVKLKPGM		TEEKIKALVE		ISKIGPENPY
B US RF M1		DGPKVKQWPL	TEEKIKALVE		ISKIGPENPY
B US SF2 K	TVPVKLKPGM		TEEKIKALVE		ISKIGPENPY
B US WEAU1	TVPVKLKPGM		TEEKIKALVE	ICTEMEKEGK	
B US WR27		DGPKVKQWPL	TEEKIKALVE		VTKIGPENPY
B_US_YU2_M		DGPKVKQWPL	TEEKIKALVE	ICTEMEKEGK	
BF1_BR_93B		DGPRVKQWPL	TEEKIKALTE		
C_BR_92BR0		DGPKVKQWLL		ICTEMEKEGK ICDEMEREGK	ISKIGPENPY
C BW 96BW0		DGPKVKQWPL	TERKIKALIA	TCDEMEREGR	TTKIGPENPY
C BW 96BW1			TEEVIVATIA	ICEEMEKEGK ICEEMEKEGK	TTKIGPENPY
C BW 96BW1	TVPVKT.KPGM	DCDKAKOMDI.	TEEVIVALUE	ICEEMEKEGK	TTKIGPENPY
C BW 96BW1	TVPVKT.KPGM	DCDKAKOMDI.	TEENTRALIE	ICEEMEKEGK	VTKIGPENPY
C ET ETH22	TVPVKT.KPGM	DGEKAKOMBI.	TEEVIVALIA	ICEEMEKEGK ICEEMEQEGK	TTKIGPENPY
C IN 93IN1	TVDVKT.KDGM	DCDKAKOMDI	TEEVTVALIA	TCEEMEGEGK	ISRIGPENPY
C IN 931N9	TVDVKT.KDGM	DGDKAKOMDI	TEGYTVALIA	ICDEMEKEGK	ITKIGPENPY
C_IN_93IN9	TVDVKI.KDGM	DGPKVKQWPL	TVEVTEVITA	ICDEMEKEGK	ITKIGPENPY
C IN 94IN1		DGPKVKQWPL		ICDEMEREGK	ITKIGPENPY
C_IN_95IN2				ICNEMEKEGK	ITKIGPENPY
CRF01 AE C	TALAKTIKEGN	DGBKAKOMBH	TEEKIKALTA	ICDEMEKEGK	ITKIGPENPY
	TVPVILLEGM	DGPKVKQWPT	EEKIALTE	ICKEMEEEGK	ISKIGPENPY
CRF01_AE_C		DGPKVKQWPL		ICKEMEEEGK	ISKIGPENPY
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CRF01_AE_T	TVPVKLKPGM	${\tt DGPKVKQWPL}$	TEEKIKALTE	ICKKMEEEGK	ISKIGPENPY
CRF02_AG_F	TVPVKLKPGM	DGPKVKQWPL	TEEKIKALTE	ICTEMEKEGK	ISKIGPENPY
CRF02_AG_F	TABAKTKBGW	DGPKVKQWPL	TEEKIKALTD	ICAEMEKEGK	ISKIGPENPY
CRF02_AG_G	TVPVKLKPGM	DGPKVKQWPL	TEEKIKALTD	ICMEMEKEGK	ISKIGPENPY

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 CRF05_DF_B TVPVKLKPGM DGPKVKQWPL TEEKIKALTE ICTDMEKEGK ISRIGPENPY
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 O SN 99SE
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00BW2127 2	איייטווייא דעעע	DOMESTING AND			
00BW2127_2	MILLALHIVEV	DSTKWKKTAD	FRELNKRTQD	FWEVQLGIPH	
00BW2128_3 00BW2276 7		DSTKWRKLVD			PAGLKKKKSV
00BW2276_7		DSTKWRKLVD		FWEVQLGIPH	PAGLKKKKSV
		DSTKWRKLVD		FWEVQLGIPH	PAGLKQKKSV
00BW3842_8 00BW3871 3		DSTKWRKLVD	FRELNKRTQD	FWEVQLGIPH	PAGLKKKKSV
00BW3876 9		DSTKWRKLVD	FRELNKRTQD		PAGLKKKKSV
<del></del>		DSTKWRKLVD	FRELNKRTQD		PAGLKKKKSV
00BW3886_8		DSTKWRKLVD	FRELNKRTQD		PAGLKKKKSV
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00BW3970_2	NTPVFAIKKK		FRELNKRTQD		PAGLKKKKSV
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96BW06_J4		DSTKWRKLVD		FWEVQLGIPH	PAGLKKKKSV
96BW11_06		DSTKWRKLVD	FRELNKRTQD		PAGLKKKKSV
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96BW15B03		DSTKWRKLVD	FRELNKRTQD		PAGLKKKKSV
96BW16_26		DSTKWRKLVD	FRELNKRTQD		PAGLKKKKSV
96BW17A09	NTPIFAIKKK		FRELNKRTQD		PAGSKKKKSV
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96BWMO3_2		DSTKWRKLVD	FRELNKRTQD		PAGLKKKKSV
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A2_CD_97CD		${\tt DSDKWRKLVD}$	FRELNKRTQD	FWEVQLGIPH	PAGLKKKKSV
A2_CY_94CY	NTPVFAIKKK		FRELNKRTQD	FWEVQLGIPH	
A2D97KR	NTPVFAIKKK		FRELNKRTQD	FWEVQLGIPH	PAGLKMKKSV
A2G_CD_97C	NTPIFAIKKK		FRELNKRTQD	FWEVQLGIPH	
A_BY_97BL0	NTPVFAIKKK	DSTKWRKLVX		FXEVQLGIPH	
A_KE_Q23_A		DSTKWRKLVD		FWEVOLGIPH	PAGLKKKKSV
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A_SE_UGSE8	NIPIFAIKKK	NSDRWRKLVD	FRELNKRTOD	FWEVOLGIPH	PAGLKKKKSV
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A_UG_U455_	NTPVFAIKKK	DSTKWRKLVD	FRELNKRTOD	FWEVOLGIPH	TAGLKKKKSV
AC_IN_2130	NTPIFAIKKK	DSTKWRKLVD	FRELNKRTOD	FWEVOLGIPH	PAGLKKKKSV
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AC_SE_SE94	NTPIFAIKKK	DSTKWRKLVD	FRELNKRTOD	FWEVQLGIPH	PAGLKKKKSV
ACD_SE_SE8	NTPIFAIKKK	DSTKWRKLVD	FRELNKRTOD	FWEVOLGIPH	PAGLKKKKSV
ACG_BE_VI1	NTPVFAIKKK	DSTKWRKLVD	FRELNKRTOD	FWEVQLGIPH	PAGLKKKRSV
AD_SE_SE69	NIPIFALKKK	DSTKWRKLVD	FRELNKRTOD	FWEVOLGIPH	PAGLKKKKSV
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ADHK_NO_97	NTPVFALKKK	DSTKWXXXXD	FRELNKRTOD	FWEVOLGIPH	PAGLKKKKSV
ADK_CD_MAL	NTPVFAIKKK	DSTKWRKLVN	FRELNKRTOD	FWEVOLGIPH	PAGLKKKKSV
AG_BE_VI11	NTPIFAIKKK	GSNRWRKLVD	FRELNKRTOD	FWEVOLGIPH	PAGLKKRKSV
AG_NG_92NG	NTPIFAIKKK	DSTKWRKLVD	FRELNKRTOD	FWEVOLGIPH	PAGLKKKRSV
AGHU_GA_VI	NTPIFAIKKK	DSTKWRKLVD	FRELNKRTOD	FCEVOLGTPH	PAGI.KKKKGV
AGU_CD_Z32	NTPIFAIKKK	DSTKWRKLVD	FRELNKRTOD	FWEVRLGIPH	PARLKKKRSV
			-		

AT DW DWOI	NUUDUUN TIETETE	D.C			
AJ_BW_BW21	NTPVFAIKKK	DSTKWRKLVD	FRELNKRTQD	FWEVQLGIPH	PAGLKKKKSV
B_AU_VH_AF	NIPVEALKKK	DSTKWRKLVD	FRELNKRTQD	FWEVQLGIPH	PAGLKKKKSV
B_CN_RL42_	MIPVEALKKK	DSTKWRKLVD		<b>FWEAQLGIPH</b>	PAGLKKKKSV
B_DE_D31_U	NTPVFAIKKK	DSTKWRKLVD	FRELNKRTQD	<b>FWEVQLGIPH</b>	PAGLKKKKSV
B_DE_HAN_U		DSTKWRKLVD	FRELNKRTQD	<b>FWEVQLGIPH</b>	PAGLKKKKSV
B_FR_HXB2_		DSTKWRKLVD	FRELNKRTQD	FWEVQLGIPH	PAGLKKKKSV
B_GA_OYI	NTPVFALKKK	DSTKWRKLVD	FRELNKRTQD	FWEVQLGIPH	PAGLKKKKSV
B_GB_CAM1_	NIPALTIKKK	DSTKWRKLVD	FRELNKRTQD	<b>FWEVQLGIPH</b>	PAGLKKKKSV
B_GB_GB8_A	NTPVFAIKKK	DSTKWRKLVD	· · - <b>A.</b> -	FWEVQLGIPH	PSGLKKKKSV
B_GB_MANC_		${\tt DSTKWRKLVD}$	FRELNKRTOD	FWEVOLGIPH	PAGLKKKKKSV
B_KR_WK_AF	NTPVFAIKKK	DSTKWRKLVD	FRELNKRTOD	FWEVOLGIPH	PAGLKKKKKGV
B_NL_3202A	NIPALATKKK	DSTKWRKLVD	FRELNKRTQD	FWEVQLGIPH	PAGLKKKKSG
B_TW_TWCYS	NTPVFAIKKK	DSTKWRKLVD	FRELNKRTQD	FWEVQLGIPH	PAGLKKKKSV
B_US_BC_L0	NTPVFAIKKK	${\tt DSTKWRKLVD}$	FRELNKRTQD	<b>FWEVQLGIPH</b>	PAGLKKKKSV
B_US_DH123		${\tt NSTRWRKLVD}$	FRELNKRTOD	FWEVOLGIPH	PAGI.KKKKKGV
B_US_JRCSF	NTPVFAIKKK	DSTKWRKLVD	FRELNRRTQD	<b>FWEVQLGIPH</b>	PAGLKKKKSV
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B_US_P896_	NTPVFAIKKK	$\mathtt{DSTKWRKLVD}$	FRELNKRTQD	FWEVQLGIPH	PAGLKKKKSV
B_US_RF_M1	NTPVFAIKKK	$\mathtt{DSTKWRKLVD}$	FRELNKRTQD	FWEVQLGIPH	PAGLKKKKSV
B_US_SF2_K	NTPVFAIKKK	DSTKWRKLVD	FRELNKRTQD	FWEVQLGIPH	PAGLKKKKSV
B_US_WEAU1	NTPVFAIKKK	DSTKWRKLVD	FRELNKRTQD	FWEVQLGIPH	PSGLKKKKSV
B_US_WR27_		DSTKWRKLVD	FRELNKRTQD	<b>FWEVQLGIPH</b>	PAGLKKKKSV
B_US_YU2_M	NTPVFAIKKK	DSTKWRKLVD	FRELNKRTQD	FWEVQLGIPH	PAGLKKKKSV
BF1_BR_93B		$\mathtt{DSTKWRKLVD}$	FRELNKRTOD	FWEVQLGIPH	PAGLKKKKSV
C_BR_92BR0		DSTKWRKLVD	FRELNKRT.D	FWEVQLGIPH	PAGLKKKKSV
C_BW_96BW0		DSTKWRKLVD	FRELNKRTOD	FWEVQLGIPH	PAGLKKKKSV
C_BW_96BW1		DSTKWRKLVD	FRELNKRTOD	FWEVQLGIPH	PAGLKKKKSV
C_BW_96BW1	NTPVFAIKKK	DSTKWRKLVD	FRELNKRTQD	FWEVQLGIPH	
C_BW_96BW1	NTPVFAIKKK	DSTKWRKLVD	FRELNKRTQD	FWEVQLGIPH	
C_ET_ETH22	NTPVFAIKKK	DSTKWRKLVD	FRELNKRTOD	FWEVQLGIPH	
C_IN_93IN1		DSIKWRKLVD	FRELNKRTQD	FWEVQLGIPH	PAGIIKKKKSV
C_IN_93IN9	NTPIFAIKKK	DSTKWRKLVD	FRELNKRTOD	FWEIQLGIPH	
C_IN_93IN9	NTPIFAIKKK	DSTKWRKLVD	FRELNKRTQD	FWEVQLGIPH	
C_IN_94IN1	NTPIFAIKKK	DSTKWRKLVD	FRELNKRTQD	FWEVQLGIPH	DAGI.KKKKGW
C_IN_95IN2	NTPIFAIKKK	DSTKWRKLVD	FRELNKRTOD	FWEVQLGIPH	DAGI.KKKKGW
CRF01_AE_C	NTPVFAIKEK	DSTKWRKLVD	FRELNKRTOD	FWEVQLGVPH	
CRF01_AE_C	NTPVFAIKKK	DSTKWRKLVD	FRELNKRTQD	FWEVQLGIPH	
CRF01_AE_C		DSTKWRKLVD	FRELNKRTOD	FWEVQLGIPH	
CRF01_AE_T	NTPVFAIKKK	DSTKWRKLVD		FWEVQLGIPH	DYCI'KKKKGA
CRF01_AE_T	NTPVFAIKKK	D.STKRKLVG	FRELNKRTOD	FWEVQLGIPR	
CRF01_AE_T	NTPVFAIKKK	DSTKWRKLVD	FRELNKRTQD	FWEVOLGIDH	DAGI.KKKKGA
CRF01 AE T	NTPIFAIKKK	NSTRWRKLVD	FRELNKRTQD	FWEVOLGTPH	DAGI.KKKKGU
CRF01_AE_T	NTPVFAIKKK	DSTKWRKLVD	FRELNKRTQD	FWEVOLGIDH	DAGI.VVVVCV
CRF01_AE_T	NTPVFAIKKK	DSTRWRKLVD	FRELNKRTQD	FWEVOLGTPP	DAGI.KKKKGU
CRF02_AG_F	NTPVFGIKKR	DSTKWRKLVD	FRELNKRTQD	SWEVOLGIPH	DAGI.KKKKGU
CRF02_AG_F	NTPVFAIKKK	DSTKWRKLVD	FRELNKRTQG	FWEVOT.PTDH	DAGI.KKKKGA
CRF02_AG_G	NTPIFAIKKK	DSTKWRKLVD	FRELNKRTQD	FWEVOLGT DE	DAGINAMAN
CRF02_AG_N	NTPVFAIKKK	DSTKWRKLVD	FRELNKRTQD	FWEVOLGIPH	DAGI.KKKKOV
CRF02_AG_S	NTPIFAIKKK	NSTRWRKLVD	FRELNKRTQD	FWETOLGIPH	DACI VVVVCV
CRF02 AG S	NTPVFAIKRK	DSTKWRKLVD	FRELNKRTQD	FWENOT'GIBH	DACI WXXXXXX
CRF03 AB R	NTPVFAIKKK	DSTKWRKLVG	FRELNKRTQD	FMEAOT GILL	DAGI PEREZEGIA
CRF03_AB_R	NTPVFVIKKK	DSTKWRKLVD	FRELNKRTQD	EMEAOT GL DA	PAGLIKKKKSV
CRF04_cpx_	NTPIFAIKKK	DSTKWRKTAD	FRELNKRTQD	TATOUT OF DATE	PAGLICIANT
CRF04_cpx_	NTPIFAIKKK	NSTRWRKT.VD	FRELNKRTQD	T NE A ČTICT SH	PAGLIKKKKSV
CRF04 cpx	NTPIFATKKK	NSNPWPKTAD	FRELNKRTQD	EMERIOT CITE	PAGLKKKKSV
CRF05 DF B	NTPIFATKKK	DSTRWKKE VD	T TETRINKET OF	T ME A OT CARE	PAGLKKKKSV
CRF05_DF_B	NTPIFATKKK	איני באמושלהטער ~~	FRELNKRTOD	rwsvQLGIPH	PAGLKKKKSI
CRF06_cpx_	NTDALATION	DOUKINDAL IN	FRELNKKTOD	rwevQLGIPH	PAGLKKKKSV
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    96BW0502 TVLDMGDAYF SVPLDEGFRK YTAFTIPSIN NETPGIRYQY NVLPQGWKGS
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96BW11 <u>0</u> 6	I ADD AGDWIE	SVPLDESFRK	YTAFTIPSTN	<b>NETPGTPVAV</b>	MIT DOCKINGO
96BW1210	TVLDVGDAYF	SVPLDESFRK	YTAFTIPSEN	METPGIRIQI	NATLEGGMKGS
96BW15B03	TVLDVGDAYF	SVPLDEDFRK	YTAFTIPSIN	METPGIRIQI	NATAGGMKGS
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98BWMC13 4	TVLDVGDAYF	SVPLDEGERK	ALVELIESIN	METPGIRYQY	NVLPQGWKGS
98BWMC14 a	TVLDVGDAYF	SVPLDEDERK	ALVELLESIN	METPGIRYQY	NVLPQGWKGS
98BWM014 1	TVLDVGDAYF	SVDIDESERV	TIMETINGON	NETPGIRYQY	NVLPQGWKGS
98BWM018 d	TVLDVGDAYE	SVETUTORY	TIMETIPSIN	NETPGIRYQY	NVLPQGWKGS
98BWM036 a	TVLDVGDAYF	SVELDENERK	TIARTIPSIN	NATPGIRHQY	NVLPQGWKGS
98BWM037 d	TVLDVGDAYF	CADIDEDLKK	TTAFTIPSVN	NETPGIRYQY	NVLPQGWKGS
99BW3932_1	TVLDVGDAYF	SALTDENEUK	YTAFTIPSIN	NETPGIRYQY	NVLPQGWKGS
99BW4642 4	TVLDVGDAYF		YTAFTIPSIN	NATPGIRYQY	NVLPQGWKGS
99BW4745 8	TVLDVGDAYF		YTAPTIPSIN	NETPGIRYQY	NVLPQGWKGS
99BW4754_7	TVLDVGDAYF		YTAFTIPSIN	NETPGIRYQY	NVLPQGWKGS
99BWMC16 8	TVLDVGDAYF	SIPLDENFRK	YTAFTIPSTN	NATPGVRYQY	NVLPQGWKGS
A2 CD 97CD		SVPLDKDFRK	YTAFTIPSIN	NETPGIRYQY	NVLPQGWKGS
A2_CY_94CY	TVLDVGDAYF	SVPLHEDFRK	YTAFTIPSIN	NETPGIRYQY	NVLPQGWKGS
A2_C1_94C1 A2D 97KR	TVLDVGDAYF	SALTHEDLEK	YTAFTIPSTN	NETPGVRYOY	MIT. DOGWEGO
	TVLDVRDAYF	SALTHEDLKK	YTAFTIPSTN	NETPGVRYOY	NVIDOGWKGC
A2G_CD_97C	TVLDVGDAYF	PARTDEGEKK	YTAFTIPSIN	NETPGVRYOY	NVT.POGWKGG
A_BY_97BL0	TVLDVGDAYF	SVPLDESFRK	XXAFTIPSVN	NETPXIRYOV	MVI. DOGWEGE
A_KE_Q23_A	TVLDVGDAYF	SVPLHEEFRK	YTAFTIPSTN	NETPGVRYOY	MVT.POGWKGG
A_SE_SE659	TVLDVGDAYF	PARTHEDERK	YTAFTIPSTN	NATPGIRYOX	MAL DOGMAGE
A_SE_SE725	TVLDVGDAYF	SVPLDESFRK	YTAFTIPSTN	NETPGVRYOY	NVT.POGWKGG
A_SE_SE753	TVLDLGDAYF	SVPLHEGERK	YTAFTIPSTN	NATPGIRYOY	NVT.POGWKGS
A_SE_SE853	TVLDVGDAYF	SVPLDESFRK	YTAFTIPSTN	NETPGIRYOY	MMT.DOGWKGC
A_SE_SE889	TVLDVGDAYF	SVPLDKNFRK	YTAFTIPSIN	NETPGIRYOY	MVT.DOGWKGG
A_SE_UGSE8	TVLDVGDAYF	SVPLDESFRK	YTAFTIPSTN	NETPGIRYOY	NVT.POGWKGQ
A_UG_92UG0	TVLDVGDAYF	SVPLDESFRK	YTAFTIPSTN	NETPGIRYOY	M/T.POGWKG9
A_UG_U455_	TVLDVGDAYF	SVPLDESFRK	YTAFTIPSIN	NETPGVRYOY	MAT DOGMAGE
AC_IN_2130	TVLDVGDAYF	SVPLYEEFRK	YTAFTIPSTN	NETPGIRYOY	MM.DOGWKGG
AC_RW_92RW	TVLDVGDAYF	PALTDEREKK	YTAFTIPSIN	NETPGIRYOY	MVT.DOGWKGG
AC_SE_SE94	TVLDVGDAYF	SVPLDKDFRK	YTAFTIPSTN	NETPGIRYOY	MAT DUCMAGE
ACD_SE_SE8	TILDVGDAYF	SALPDEREKK	YTAFTIPSTN	METEGTEVOV	MIT DOGGRACA
ACG_BE_VI1	TVLDVGDAYF	SVPLOKEFRK	YTAFTIPSVN	METDGTDVAV	MIT DOGWINGO
AD_SE_SE69	TATIDAGDWXE.	SVPLYEDFRK	YTAFTIPSIN	METDGTDVOV	MIT DOGGETTA
AD_SE_SE71	IVDDVGDAIR	PARTHEFICK	YTAFTIPSTN	NETPGTRYOV	MAT DOCUMENCO
ADHK_NO_97	TVLDVGDAYF	SVPLAEDFRK	YTAFTIPSIN	NETPGIRYQY	MATENCHINGS
ADK_CD_MAL	TVLDVGDAYF	SVPLDEDFRK	YTAFTTPSTN	NETPGIRYQY	MAT DOGMYCS
AG_BE_VI11	TVLDVGDAYF	SVPLDESFRK	YTAFTTPSTN	NETPGIRYQY	MAT DOGMECS
AG_NG_92NG	TVLDVGDAYF	SIPLDENFRK	YTAFTTPSTN	NETPGIRYQY	MAT DOGMECS
AGHU_GA_VI	TVLDVGDAYF	SVPLYEGFRR	YTAFTTPSTN	NETPGIRYQY	MAT DOCUMES
AGU_CD_Z32	TVLDVGDAYF	SVPLHEDFRK	YTAFTTDGIN	NETPGIRYQY	MATTAGGMKGS
AJ_BW_BW21	TVLDVGDAYF	SVPLDENFRK	VTAFTTTEIM	NETPGIRYQY	NVLPQGWKGS
B_AU_VH_AF	TVLDVGDAYF	SVPLDKDFRK	VTAFTTDCTM	NETPGIRYQY	NVLPQGWKGS
B CN RL42	TVLDVGDAYF	SVPLDKDFPK	ALTER TIESTM	METEGIKIQI	NATLEOGMKGS
B_DE_D31_U	TVLDVGDAYF	SVPIDEDERK	ALVELLESAN	MEILEGIKAÖA	NVLPQGWKGS
B DE HAN U	TVLDVGDAYF	SALTORDLUX	TIMETITESIN	METPGVRYQY	NVLPQGWKGS
B_FR_HXB2_	TVLDVGDAYF	SADITUEUR	TIATITESIN	NETPGIRYQY	NVLPQGWKGS
B_GA_OYI	TVLDVGDAYF	SADI'UKUEDA	TIMETITESIN	METPGIRYQY	NVLPQGWKGS
B GB CAM1	TVLDVGDAYF	SADIONOLKY	TIAPTIPSIN	NETPGIRYQY	NVLPQGWKGS
B_GB_GB8_A	TVLDVGDAYF	SALTDVD&KK	TAPTIPSTN	NETPGIRYQY	NVLPQGWKGS
B_GB_MANC	TVLDVGDAYF	O A ETITVELKK	TAFTIPSIN	NETPGIRYQY	NVLPQGWKGS
B_KR_WK AF	IVIDAGDWIL	PARTIEDLEK	YTVFTTPSTN	MEDDGIDOOV	MIT DOGGERAGO
B_NL_3202A	IVIDVGDAIF	PARTURDEKKK	YTAFTIPSTN	METDGTDVOV	MIT DOCKINGO
B_TW_TWCYS	THUDVGDATE	PARTINTERK	YTAFTIPSVN	METDGTDVAV	MAT DOGGGGGG
B_US_BC LO	IANDAGDWIL	PARTIMETER	YTAFTIPSIN	METDGTDVAV	MIT DOCKINGO
~_03_50_10	TVLDVGDRYF	OALTOKOŁKK	YTAFTIPSIN	NETPGIRYQY	NVLPQGWKGS

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B_US_DH123 B US JRCSF	IATDACDARE	SIPLDEDFRK	YTAFTIPSVN	NAAPGIRYQY	NVLPQGWKGS
	TVLDVGDAYF		YTAFTIPSIN	NETPGIRYQY	NVLPQGWKGS
B_US_MNCG_	TVLDVGDAYF	SVPLDKDFRK	YTAFTIPSIN	NETPGIRYQY	NVLPQGWKGS
B_US_P896_	TVLDVGDAYF	SVPLDEDFRK	YTAFTIPSIN	NETPGIRYQY	NVLPQGWKGS
B_US_RF_M1	TVLDVGDAYF	SVPLDKEFRK	YTAFTIPSIN	NETPRIRYQY	NVLPQGWKGS
B_US_SF2_K	TVLDVGDAYF	SVPLDKDFRK	YTAFTIPSIN	NETPGIRYQY	NVLPQGWKGS
B_US_WEAU1	TVLDVGDAYF	SVPLDEDFRK	YTAFTIPSIN	NETPGIRYQY	NVLPQGWKGS
B_US_WR27_	TVLDVGDAXF	SVXLDXEXRK	YTAFTIPSXH	NETPGIRYQY	NVLPQGWKGS
B_US_YU2_M	TVLDVGDAYF	SVPLHEDFRK	YTAFTIPSIN	NETPGTRYQY	NVLPQGWKGS
BF1_BR_93B	TVLDVGDAYF	SVPLDKDFRK	YTAFTIPSTN	NETPGLRYQY	NVLPQGWKGS
C_BR_92BR0	TVLDVGDAYF	SVPLDEGFRK	YTAFTIPSIN	NETPGIRYQY	NVLPQGWKGS
C_BW_96BW0	TVLDVGDAYF	SVPLDESFRK	YTAFTIPSIN	NSTPGIRYQY	NVLPOGWKGS
C_BW_96BW1	TVLDVGDAYF	SVPLDESFRK	YTAFTIPSIN	NETPGIRYOY	NVLPOGWKGS
C_BW_96BW1	TVLDVGDAYF	SVPLDESFRK	YTAFTIPSRN	NETPGIRYOY	NVLPOGWKGS
C_BW_96BW1	TVLDVGDAYF	SVPLDEDFRK	YTAFTIPSIN	NETPGIRYOY	NVLPOGWKGS
C_ET_ETH22	TVLDVGDAYF	SVPLDEGFRK	YTAFTIPSTN	NETPGIRYQY	NVI-POGWKGS
C_IN_93IN1	TVLDVGDAYF	SVPLYEDFRK	YTAFTIPSIN	NETPGIRYQY	MAT' DUGMKGS
C_IN_93IN9	TVLDVGDAYF	SVPLYEDFRK	YTAFTIPSIN	NETPGIRYQY	MAL'DUGMKGS
C_IN_93IN9	TVLDVGDAYF	SVPLYEDFRK	YTAFTIPSRN	NETPGIRYQY	MAL DOGMICG
C_IN_94IN1	TVLDVGDAYF	SVPLYEDFRK	YTAFTIPSIN	NETPGIRYQY	MAT DOGMEGS
C_IN_95IN2	TVLDVGDAYF	SVPLYEDFRK	YTAFTIPSIN	NETPGIRYQY	MULDOCWKOS
CRF01 AE C	TVLDVGDAYF	SVPLYEGFRK	YTAFTTESTN	NETPGIRYQY	MAT DOGMECO
CRF01 AE C	TVLDVGDAYF	SVPLDEGFRK	YTAFTIDSIN	NETPGVRYQY	MAT DOGWAGS
CRF01 AE C	TVLDVGDAYF	SVPLHE SRK	YTAFTIESIN YTAFTIESIN	NETPGIRYQY	MATERIAL
CRF01 AE T	TVLDVGDAYF	SVPIDESERK	VTAPTIESIN	DETPGIRYQY	NVLPQGWRGS
CRF01 AE T	TVLDVGDAYF	SVPLDESERK	ALVELIDGIN	NETPGIRYQY	NATIOGRAMES
CRF01 AE T	TVLDVGDAYF	SVDIDEGEDY	ALVE TIESTI	NETPGIRYQY	NVLPQGWKGS
CRF01 AE T	TVLDVGDAYF	SVPIDESERK	ALVELLECTY	NETPGIRYQY	NVLPQGWKGS
CRF01 AE T	TVLDVGDAYF	SALTERELET	TIMETTESTM	METPGIRYQY	NVLPQGWKGS
CRF01 AE T	TVLDVGDAYF	SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDERLY SALTDE	TIALITESIN	NETPGIRYQY	NVLPQGWKGS
CRF02 AG F	TVLDVGDAYF	SALPDESEKK	YTAFTIPSIN	NETPGIRYQY	NVLPQGWKGS
CRF02_AG_F	TVLDVGDAYF	SALIDADLEX	TTAFTIPSTN	NETPGIRYQY	NVLPQGWKGS
CRF02 AG G	TVLDVGDAYF	CUDIDIDIDIRK	YTAFTIPSVN	NETPGIRYQY	NVLPQGWKGS
<b>–</b> –		SALPDKDLKK	YTAFTIPSIN	NETPGIRYQY	NVLPQGWKGS
CRF02_AG_N CRF02 AG S	TVLDVGDAYF	SVPLDKDFRK	YTAFTIPSVN	NETPGIRYQY	NVLPQGWKGS
	TVLDVGDAYF	SVPLDKDFRK	YTAFTIPSIN	NETPGIRYQY	NVLPQGWKGS
CRF02_AG_S	TVLDVGDAYF	SVPLDEDFRK	YTAFTIPSVN	NETPGIRYQY	NVLPQGWKGS
CRF03_AB_R	TVLDVGDAYF	SVPLDQDFRK	YTAFTIPSTN	NETPGIRYQY	NVLPQGWKGS
CRF03_AB_R	TVLDVGDAYF	SVPLDQDFRK	YTAFTIPSTN	NETPGIRYQY	NVLPQGWKGS
CRF04_cpx_	TVLDVGDAYF	SVPLDPEFRK	YTAFTIPSTN	NETPGIRYQY	NVLPQGWKGS
CRF04_cpx_	TVLDVGDAYF	SVPLDPAFRK	YTAFTIPSTN	NETPGVRYQY	NVLPQGWKGS
CRF04_cpx_	TVLDVGDAYF	SVPLDPEFRK	YTAFTIPSIN	NETPGTRYOY	MAT. DOGWEGO
CRF05_DF_B	TVLDVGDAYF	SVPLDKEFRK	YTAFTIPSIN	NETPGIRYQY	NVLPQGWKGS
CRF05_DF_B	TAPDAGDWAR	SVPLHEDFRK	YTAFTIPSIN	NETPGFRYOY	NVI-POGWKGS
CRF06_cpx_	TAPDAGDWAL	SIPLDEKFRK	YTAFTIPSTN	NETPGIRYOY	MAL' BUCMKGG
CRF06_cpx_	TVLDVGDAYF	SIPLDKDFRK	YTAFTIPSTN	NETPGIRYOV	NVT.POGWKGS
CRF06_cpx_	TAPDAGDAAL	SVPLGENFRK	YTAFTIPSLN	NETPGIRYOY	NVI-POGWKGS
CRF06_cpx_	IVLDVGDAYF	SVPLDKDFRK	YTAFTIPSIN	NETPGIRYOY	NVI-POGWKGS
CRF11_cpx_	TATDAGDWAL	SVPLDENFRK	YTAFTIPSIN	NETPGVRYOY	MALEUGMKGS
CRF11_cpx_	TVLDVGDAYF	SVLLDESFRK	YTAFTIPSLN	NETPGTRYOY	MVI.DOGWKGG
D_CD_84ZR0	TVLDVGDAYF	SIPLCEDFRK	YTAFTIPSIN	NETPGIRYQY	NVI-POGWKGS
D_CD_ELI_K	TVLDVGDAYF	SVPLDEDFRK	YTAFTISSIN	NETPGIRYQY	NVI-POGWKGS
D_CD_NDK_M	TVLDVGDAYF	SVPLDEDFRK	YTAFTIPSIN	NETPGIRYQY	MAT' BUGMKGS
D_UG_94UG1	TVLDVGDAYF	SVPLHEDFRK	YTAFTIPSTN	NETPGIRYQY	MAT DOCKNOS
F1_BE_VI85	TVLDVGDAYF	SVPLDKDFKK	YTAFTIPSVN	NETPGIRYQY	MAT DOGMACO
F1_BR_93BR	TVLDVGDAYF	SVPLDKDFRK	YTASTIPSTM	NETPGYRYQY	MAT DOCUMES
F1_FI_FIN9	TVLDVGDAYF	SVPLDKDFRK	YTARTTOIN	NETPGIRYQY	MATECOMES
F1_FR_MP41	TVLDVGDAYF	SVPLDKEEPK	YTA FTT DOIN	NETPGIRYQY	MAT DOCUMES
F2_CM_MP25	TVLDVGDAYF	SVPIDKEEDK	AUT ELL DOLM	NETPGIRYQY NETPGIRYQY	MATERIAL
F2KU_BE_VI	TVLDVGDAYF	SVPI.DDFFDY	ALM BALLDOIN.	NETPGIRYQY NETPGVRYQY	MATTAGGMKGS
G BE DRCBL	TVLDVGDAVE	SVDIJDENERA	TINE TIES VN	METEGAKAÖA	WATTAGGMKGS
G NG 92NG0	TVLDVGDAVE	SADIURUBDA	ATTENTACE	NETPGIRYQY	PQGWKGS
		- 4 E TIDITUT KK	TIMETTESTN	NETPGIRYQY	<b>MATTAÖGMKGS</b>

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G_SE_SE616 TVLDVGDAYF SVPLDEDFRK YTAFTIPSIN NETPGVRYQY NVLPQGWKGS
 H_BE_VI991 SVLDVGGAYF SVPLHEDFRK YTAFTIPSTN NETPGIRYQY NVLPQGWKGS
 H_BE_VI997 SVLDVGDAYF SVPLDKDFRK YTAFTIPSIN NETPGIRYQY NVLPQGWKGS
 H_CF_90CF0 SVLDVGDAYF SVPLDKEFRK YTAFTIPSIN NETPGIRYQY NVLPQGWKGS
 J_SE_SE702 TVLDVGDAYF SVPLYEDFRK YTAFTIPSIN NETPGIRYQY NVLPQGWKGS
 J_SE_SE788 TVLDVGDAYF SVPLYEDFRK YTAFTIPSIN NETPGIRYQY NVLPQGWKGS
 K_CD_EQTB1 TVLDVGDAYF SVPLDKDFRK YTAFTIPSIN NETPGIRYQY NVLPQGWKGS
 K_CM_MP535 TVLDVGDAYF SVPLDKDFRK YTAFTIPSIN NETPGVRYQY NVLPQGWKGS
 N_CM_YBF30 TVLDVGDAYF SCPLDKDFRK YTAFTIPSIN NETPGIRYQY NVLPQGWKGS
 O_CM_ANT70 TVLDVGDAYF SCPLDPDFRK YTAFTIPSVN NETPGIRYQY NVLPQGWKGS
 O CM MVP51 TVLDVGDAYF SCPLDPDFRK YTAFTIPSVN NETPGVRYQY NVLPQGWKGS
 O_SN_99SE_ TVLDVGDAYF SCPLDPDFRK YTAFTIPSVN NETPGIRYQY NVLPQGWKGS
O_SN_99SE_ TVLDVGDAYF SCPLDPDFRK YTAFTIPSVN NETPGIRYQY NVLPQGWKGS
 U_CD__83C TVLDVGDAYF SVPLDENFRK YTAFTIPSIN NETPGIRYQY NVLPQGWKGS
 00BW0762_1 PAIFQSSMTR ILEPFRTQNP EIVIYQYMDD LYVGSDLEIG QHRVKIEELR
 00BW0768_2 PAIFQDSMTK ILEPFRAQNP EIVIYQYMDD LYVGSNLEIG QHRAKIEELK
 00BW0874_2 PAIFQSSMTR ILEPFRAQNP ELVIYQYMDD LYVGSDLEIG QHRAKIEELR
 00BW1471_2 PAIFQSSMTK ILEPFRAQNP EIVIYQYMDN LYVRSDLEIG QHRAKIEELR
 00BW1616_2 PAIFQSSMTK ILEPFRAKNP EIVIYQYMDD LYVGSDLEIG QHREKIEELR
 00BW1686_8 PAIFQSTMTK ILEPFRAQNP EIVIYQYMDD LYVGSDLEIG QHRAKIEELR
 00BW1759_3 PAIFQSSMTK ILEPFRAQNP EIVIYQYMDD LYVGSDLEIG QHRAKIEELR
 00BW1773_2 PSIFQSSMTK ILEPFRTQNP EIVIYQYMDD LYVGSDLEIG QHRAKIEGLR
 00BW1783_5 PAIFQSSMTK ILGPFRTQNP DIVIYQYMDD LYVGSDLEIG KHRAKIEELR
 00BW1795_6 PAIFQSSMTR ILEPFRTQNP EIVIYQYMDD LYVGSDLEIG QHRAKIEKLR
 00BW1811_3 PAIFQSSMTK ILEPFRAQNP ETVIYQYMDD LYVGSDLEIG QHRAKIEELR
 00BW1859_5 PAIFQSSMTR ILEPFRTQNP EIVIYQYMDD LYVESDLEIG QHRAKIEELK
 00BW1880_2 PAIFQSSMTK ILEPFRAQNP EIVIYQYMDD LYVGSDLKIG QHRAKIEELR
 00BW1921_1 PAIFQSSMTK ILEPFRAQNP DIVIYQYMDD LYVGSDLEIG QHRAKIEELR
 00BW2036_1 PAIFQSSMTK ILEPFRAKNP ELVIYQYMDD LYVGSDLEIG QHRARIEELR
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OBW2063_6
OBW2087_2
OBW2087_2
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A2G_CD_97C		ILEPFRADNP	EIVIYQYMDD	LYVGSDLEIG	QHRAKIEELR
A_BY_97BL0		ILEPFRLKNP	EIVIYQYXDD	LYVGSDLETG	QHRTKIEELR
A_KE_Q23_A		ILEPFRSKNP	EIVIYQYMDD	LYVGSDLEIG	OHRAKTERI.P
A_SE_SE659	PAIFQSSMTK	ILEPFRSKNP	DIIIYQYMDD	LYVGSDLEIG	OHRAKIEELR
A_SE_SE725	PAIFQSSMTK	ILEPFRLKNP	EIIIYQYMDD	LYVGSDLEIG	OHRTKTERLD
A_SE_SE753	PAIFQSSMTK	ILEPFRERNP	EVIIYQYMDD	LYVGSDLEIG	OHRTKIEELR
A_SE_SE853	PSIFQSSMIK	ILEPFRSKNP	EIIIYQYMDD	LYVGSDLEIG	OHRTKIEELR
A_SE_SE889		ILEPFRVQNP	EIIIYQYMDD	LYVGSDLEIG	OHRAKVEELR
A_SE_UGSE8		ILEPFRSKNP	EIIIYQYMDD	LYVGSDLEIE	OHRTKIEELR
A_UG_92UG0		ILEPFRSKNP	DIVIYQYMDD	LYVGSDLEIG	OHRTKIEELR
A_UG_U455_		ILEPFRSQHP	DIVIYOYMDD	LYVGSDLEIG	OHRAKTEELD
AC_IN_2130	PAIFQASMTK	ILEPFRAQNP	EIVIYQYMDD	LYVGSDLKIG	OHRAKTEELD
AC_RW_92RW	PAIFQNSMTK	ILEPFRAQNQ	EIVIYOYMDD	LYVGSDLEIG	OHPAKTEET.D
AC_SE_SE94	PAIFQSSMTK	ILAPFRSQNP	EIIIYOYMDD	LYVGSDLEIG	OHPTKIPELD
ACD_SE_SE8		ILEPFRSKNP	DMIIYOYMDD	LYVGSDLEIG	OTIVITATEDIA
ACG_BE_VI1	PAIFQASMTK		EIVIYOYMDD	LYVGSDLEIG	OHDINITEEDE
AD_SE_SE69	PAIFQSSMTK		EMVIYOYMDD	LYVGSDLEIG	OTDIVAKIBELK
AD SE SE71	PAIFQSSMTK	ILEPFRSKNP	ELTTYOYMOD	LYVGSDLEIG	ONDINITION
ADHK NO 97	PAIFQCSMTK		EIVIYOYMDD	LYVGSDLEIG	ORDARLEGIE D
ADK_CD_MAL	PAIFQSSMTK		EIVIYOYMDD	LYVGSDLEIG	OHDERTHELD
AG BE VI11	PAIFQASMTK		KIVIYOYMDD	LYVGSDLEIG	OHDAKIDELD
AG NG 92NG	PAIFQSSMTK		ETVTYOVMDD	LYVGSDLETG	OURAKIDELR
AGHU_GA_VI	PAIFQSSMTK		EMVIVOVMDD	LYVGSDLEIG	OHRAKIEELK
AGU CD Z32	PAIFQSSMTK		ETVTYOVMDD	LYVGSDLEIG	OHRAKIEELR
AJ BW BW21	PAIFQYSMTK		ETVITOVMDD	LYVGSDLEIG	OHRAKIEELR
B_AU_VH AF	PAIFQSSMTK		DIVITACAMDD	LYVGSDLEIG	OHRTKIEELR
B_CN_RL42	PAIFQCSMTK		DIVITOINDD	LYVGSDLEIG	OHRIKIEELR
B DE D31 U		ILEPFRKQNP	DIVITATION	LYVGSDLEIG	QHRAKIEEER
B DE HAN U	PAIFOSSMTK	ILEPERKOND	DIVITATION	LYVGSDLEIE	QHRTKIEELR
B_FR_HXB2_	PAIFOSSMTK	TLEDEDKOND	DIVITOINDD	LYVGSDLEIG	QHRTKIEELR
B GA OYI	PAIFOSSMTK	TLEPERKOND	DIVITOINDD	LYVGSDLEIG	QHRTKIEELR
B GB CAM1	PAIFOSSMTK	TLEPERKOND	DIVITOIMDD	LYVGSDLEIG	QHRTKIEELR
B GB GB8 A	PAIFOSSMTK	TLEPERKOND	DIVITOIMED	LYVGSDLEIG	QHRTKIEELR
B GB MANC	PAIFOSSMTK	TLEDEDKOND	DIVITATIONNO	LIVESDLEIG	QHRTKIEELR
B KR WK AF	PAIFOSSMTK	TLEDEDKOND	DIVITOTION	LYVGSDLEIG LYVGSDLEIG	QHRTKIEELR
B NL 3202A	PAIFOCSMTK	TLEPERKOND	DIVITOIND	PAAGSDFEIG	QHRIKIEELR
B_TW_TWCYS	PATFOSSMTR	TI.EDEDKOND	DIVITATION	PIACESTEIG	QHRTKIEELR
B_US_BC_L0	PAIFOSSMTK	TLEDEDKOND	DIVITOIMDD	LYVGSDLEIG	QHRIKVEELR
B US DH123	PATFOSSMTK	TI.PDPDVOXD	DIVIIQIMDD	LYVGSDLEIG	QHRTKIEELR
B US JRCSF	PATEOSSMTK	TI.EDEBROWD	DIVITYOURD	LYVGSDLEIE	QHRTKIEELR
B_US_MNCG	DATEOGGMEN	TLEDEDKOND	DITITAGAMDD	LYVGSDLEIG	QHRTKIEELR
B US P896	DAILOGGMAR	THEFFRAQUE	DIATAGAMDD	LYVGSDLEIG	QHRAKIEELR
B_US_RF_M1	DYLEUGGMER	TIEPFKKQNP	DIATAGAMDD	LYVGSDLEIG	QHRAKIEDLR
B_US_SF2_K	DYTECCOMMX	TTELLKKÖNL	EIAIAÖAWDD	LYVGSDLEIG	QHRIKIEELR
B_US_SF2_R B_US_WEAU1	EUTE COOMILE EUTE COOMILE	TUEPERKONP	DIAIAÖAWDD	LYVGSDLEIG	QHRTKIEELR
	EWIL NO ONE	TTEPERKKÖNP	DIAIAÖAWDD	LYVGSDLEIG	QHRTKIEELR
B_US_WR27_	PTIFPSSMTQ	ILEPFRKPNP	EIVIYQYMDD	LYVGSNLEIG	OHRTKTEELP
B_US_YU2_M	FATEOSSMILL	TTELLKKOND	DTAIAÖAWDD	LYVGSDLEIG	QHRTKIEELR
BF1_BR_93B	PAIFQSSMIK	ILEPFRKQNP	DIVIYOYMDD	LYVGSDLETG	OHRTKTERI.D
C_BR_92BR0	PSIFQSSTTK	ILEPFRAQNP	EIIIYQYMDD	LYVGSDLEIG	OHRAKTEELR
C_BW_96BW0	PATLÖSSWIK	LLEPFRTKNP	DIVIYOYMDD	LYVGSDLETG	OHRAKTERLR
C_BW_96BW1	PSILOSSWIK	ILEPFRAKNP	ELVIYQYMDD	LYVGSDLETG	OHRARTERIA
C_BW_96BW1	FAIFQSSMTK	TPRLEBEUDID	EIVIYQYMDD	LYVGSDLEIG	QHTAKIEELR

C BW 96BW1	DOTECCOMEN	TT EDED S Davo	-		
C ET ETH22	PDIFOCOMIN	ILEPFRAPNP	EIAIAÖAWDD	LYVGSDLEIG	QHRAKIEELR
C IN 93IN1			EIAIAÖAWDD	LYVGSDLEIG	QHRAPIEELR
C IN 931N9		ILEPFRAQNP	EIAIAÖAWDD	LYVGSDLEIG	QHRAKIEELR
C IN 93IN9		ILEPFRARNP	EIAIAÖAWDD	LYVGSDLEIG	QHRAKIEELR
		ILEPFRAQNP	EIVIYQYMDD	LYVGSDLEIG	QHRAKIEELR
C_IN_94IN1	PAIFQSSMTK		EIDIYQYMDD	LYVGSDLEIG	QHRAKIEELR
C_IN_95IN2		ILEPFRAQNP	EIAIAÖAWDD	LYVGSDLEIG	QHRAKIEELR
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CRF01_AE_T		ILEPFRTKNP	EIVIYQYMDD	LYVGSDLEIG	OHRTKTEELR
CRF02_AG_F		ILEHYRIKNP	EIMIYQYMDD	LYVGSDLEIE	OHRAKTEELR
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CRF02_AG_G	PAIFQSSMTK	ILEPYRIKNP	EIVIYOYMDD	LYVGSDLEIG	OHPAKTEELD
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CRF02 AG S	PAIFQASMTK		EIVIYOYMDD	LYVGSDLEIG	OLD VALEE D
CRF02 AG S		ILEPFRTKNP	ELVIYOYMDD	LYVGSDLEIG	OHDANTEELD
CRF03 AB R	PAIFQSSMTK		EIVIYOYMDD	LYVGSDLEIG	ONDERTREET
CRF03 AB R	PAIFQSSMTK		EIVIVOVMDD	LYVGSDLEIG	OMETETER
CRF04_cpx	PAIFQCSMTK		EIVIVOVMDD	LYVGSDLEIG	OHRIKIEELK
CRF04 cpx	PAIFQYSMTK		EIVIVOVMDD	LYVGSDLEIG	QHRAKIEELR
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CRF05 DF B	PAIFQCSMTK		EMATIONADD	LYVGSDLEIG LYVGSDLEIG	OHKAKIEELR.
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CRF11_cpx_	PAIFQSSMTK		ETATIONED	LYVGSDLEIG	QHREKVEELR
D CD 84ZR0	PAIFQSSMIK		EAATAGAWDD	LYVGSDLEIG	QHREKVEELR
D CD ELI K	PAIFQSSMIK		EAATAGAWDD	LYVGSDLEIG	QHRAKIEKLR
			EMATAGAMDD	LYVGSDLEIG	QHRTKIEKLR
D_CD_NDK_M D UG 94UG1	PAIFQSSMTK		EIVIYQYMDD	LYVGSDLEIG	QHRTKIEELR
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F1_FI_FIN9	PAIFQCSMTK	ILEPFRTRNP	DIVIYQYMDD	LYVGSDLEIG	QHRTKIEELR
F1_FR_MP41	PAIRQSSMIK	ILEPFRAKNP	DIVIYOYMDD	LYVGSDLELG	OHRMKTEELD
F2_CM_MP25	PAIRQSSMIK	ILEPFRKEND	EIVIYQYMDD	LYVGSDLETG	OHRAKTEET.D
F2KU_BE_VI	PAIFQYSMTK	ILEPFRTKNP	EMVIYQYMDD	LYVGSDLEIG	OHRTKTEELD
G_BE_DRCBL	PAIRQSSMIK	<b>LLEPFRTQNP</b>	EIVIYQYMDD	LYVGSDLEIG	OHRAKTERLD
G_NG_92NG0	PAIFQSSMTK	ILEPSRTKNP	EMVIYQYMDD	LYVGSDLEIG	OHRAKTERLE
G_SE_SE616	PAIFQSSMTR	ILEPFRANNP	EMVIYQYMDD	LYVGSDLEIG	OHRAKTERT.P
<b>H_BE_VI991</b>	PAIFQSSMIK	TLEPFRKQNP	EVIIYQYMDD	LYVGSDLEIG	OHREKTEELB
<b>H_BE_VI997</b>	PAIFQSSMTK	ILEPFRKQNP	EIIIYQYMDD	LYVGSDLEIG	OHRAKTEELR
H_CF_90CF0	PAIFQSSMTK	ILAPFREQNP	EMVIYQYMDD	LYVGSDLEIG	OHRAKTEELE
J_SE_SE702	PAIFQCSMTK	ILKPFRERNP	EIVIYQYMDD	LYVGSDLEIE	OHRRKIKET.P
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K_CM_MP535	PAIFQHSMTK	ILEPFRIKNP	EMVIYOYMDD	LYVGSDLEIG	ODDAKIDENY
N_CM_YBF30	PAIFQSTMTK	ILEPFREKHP	EIIIYOYMDD	LYVGSDLELA	OHDEVIEDT D
O_CM_ANT70	PAIFQSSMTK	ILDPFRRDNP	ELEICOYMDD	LYVGSDLPLT	ZTTV TH V TO LIK
O_CM_MVP51	PAIFQSSMTK	ILDPFRKSNP	EVETYOVIDD	LYVGSDLPLA	PHOLOGOPER
O_SN_99SE	PAIFOSSMTK	ILDPFRKDND	ELEICOAMDD	LYVGSDLPLT	PURKKYELLK
O_SN_99SE_	PAIFQSSMTK	ILDPFRKNND	ELETCOAMDD	LYVGSDLPLT	PUKYKARPPK
ປ_CD83C	PAIFOSSMTK	ILEPERKEND	EIGINOVADD	LYVGSDLFLT	PUKVKARTPK
			-TATIOTHIND	TI AGOUPETG	OHKAKTEELR

	401				
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00BW2127 2	EHLLKWGFTT	~	FLWMGYELHP	DKWTVQPIQL	
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00BW3819 3	GHLLRWGFTT		FLWMGYELHP	DKWTVQPIQL	PEKDSWTVND
00BW3842_8	AHLLKWGFTT		FLWMGYELHP	DKM.LAĞLIĞE	PEKDSWTVND
00BW3871 3	DHLLKWGFTT	PDKKHQKEPP	FLWMGYELHP	DKMIAOTE	PEKESWTVND
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96BW15B03	KHLLRWGFTT	PDKKHQKEPP	FLWMGYELHP		PEKESWTVND
96BW16_26	THLLKWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVQPIQL	PEKESWTVND
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98BWMC12_2	IHLLRWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTTOPTOT.	DEKDekumano
98BWMC13_4	RHLLRWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTWOPTOT.	DEKEGMMAND
98BWMC14_a	DIMPROMETT	POVVIČVEDD	FLWMGYELHP	DKWTVOPTOT.	DOKUGRAMAN
98BWM014_1	GUTTŐMGŁ I.I.	PDKKHÖKEPP	FLWMGYELHP	DKWTVODTOT.	DEKDOMMAND
98BWM018_d	RUDDIVAGELL	PDKKHÖKEPP	FLWMGYELHP	DKWTWODTWI.	DEVIDENMENTS
98BWMO36_a	PUTITIONGELL	PDKKHÖKEDD	FLWMGYELHP	DKWTWOPTOT.	DEKDOMMAN
98BWM037_d	SITTING TI	PDVVUČKEPP	FLWMGYELHP	DKWTVOPTOT.	DEVIDENMENT
99BW3932_1	DUTTIOMOLIT	PDKKHÖKEPP	FLWMGYELHP	DKWTWOPTOT.	DEKECHMINI
99BW4642_4	CIMPIUMGLII	PDVVHÖKEPP	FLWMGYELHP	DKWTVOPTOT.	DEKLICKUMANIO
99BW4745_8	EUTITIVAGE.L.L.	PDKKHÖKEPP	FLWMGYELHP	DKWTVODTOT.	DEVICEMENT
99BW4754_7	EUDITKMGD.I.I.	PDKKHQKEPP	FLWMGYEPHP	DKWTVOPTI.I.	DEKECMMIATO
99BWMC16_8	DITTUTIONGETT	PDKKHÖKRÞÞ.	FLWMGYELHP	DKWTVOPTMT.	DUMOUND
A2_CD_97CD	WITH THE WOLL I.	PDKKHÖKEPP	FLWMGYELHP	DKWTVOPTKT.	DEKDOMMAND
A2_CY_94CY	THEMOTIL	PDVVHÖVRÞÞ	FLWMGYELHP	DKWTWODTKT.	DEVIDONMAND
A2D97KR	MUTHUWAGETT	PDKKHOKEPP	FLWMEYELHD	DKWTYOOTKI	DEVENORMENT
A2G_CD_97C	TITTOWAGE T T	PDVVHÖKRÞÞ	FLWMGYELHP	DKWTVODTOT.	DDVECMMAND
A_BY_97BL0	THIRD MOLIT	PDVVHÖKRÞÞ	FLWXXYEXHP	DKWTVODTMI.	DDVDCMmann
A_KE_Q23_A	MUTIPAGELL	PUKKHÖKEPP	FLWMGYELHP	DKWTVODTET.	DEMINGRAMMENT
A_SE_SE659	SUTTOMOLIT.	PUCKHOKEPP	FLWMGYELHP	DKWTWODTVI.	DEVECUMAN
A_SE_SE725	AHLLSWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVQPIEL	PEKESWTVND

3 OD ODDES					
A_SE_SE753	EHLLSWGFTT	PDKKHQKEPP	FLWMGYEVHP	DKWTVQPIVL	PEKESWTVND
A_SE_SE853	WUTTI 2 MGT I.I.	PDKKHÖKEÞÞ	FLWMGYELHP	DKWTVOPINI.	DEKECMUND
A_SE_SE889	WITH DOMGE I I	SDVVHÖVRDD	FLWMGYELHP	DKWTWODTOL	DATECTATIONS
A_SE_UGSE8	WUTTIOM GE.E.T.	PDOKHOKEPP	FLWMGYELHP	DKWTVOPTKT.	DEKECMANAU
A_UG_92UG0	EUTITIVAGE.I.I.	POKKHŐKEÞÞ	FLWMGYELHP	DKWTVQPIEL	PEKESWTVND
A_UG_U455_	MUDIDARGETT	<b>ADKKHÖKRÞ</b>	FLWMGYELHP	DKWTVQPIQL	PEKDSWTVND
AC_IN_2130	EHLLRWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVQPIOL	PEKDSWTVND
AC_RW_92RW	EHLLKWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVOPIOL	PEKDSWTVND
AC_SE_SE94	AHLLSWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVOPIOL	PDKDSWTVND
ACD_SE_SE8	AHLLSWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVOSIKL	PEKESWTVND
ACG_BE_VI1	EHLLRWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVODTOL	PEKDSWTVND
AD_SE_SE69	GHLLKWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVODTTI.	PEKESWTVND
AD_SE_SE71	EHLLKWGFYT	PDQKHQKEPP	FLWMGYELHP	DRWTVODTKT.	PEKESWTVND
ADHK_NO_97	EHLLRWGLTT	PDKKHQKEPP	FLWMGYELHP	DKWTVODTOL	DDKECMMAND
ADK_CD_MAL	EHLLKWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTWODTOT	DDMEONWAN
AG_BE_VI11	PUTTINGETT	PDOKHOKEPP	FLWMGYELHP	DKWTVOPIOL	PEKDSWTVMD
AG_NG_92NG	MITTHEWAGELL	PDVVHOVEDD	FLWMGYELHP	DKWTVQPIQL	PNKESWTVMD
AGHU_GA_VI		PDKKHQKEPP	FLWMGYELHP	DKWTVQTVKL	PEKDSWTVMD
AGU_CD_Z32	EHLLRWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVOPTOT.	DUKECMMINTO
AJ_BW_BW21	EHLLRWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTWODTOT.	DUKEAMutamo
B_AU_VH_AF	OUTTINGE L.T.	PUKKHÖKEPP	FLWMGYELHP	DKWTWODTWI.	DEKDOMMAND
B_CN_RL42_	OUTPKMGE L.T.	PUKKHÖKEPP	FLWMGYELHL	DKWTVODTMI.	DEKDOMMAND
B_DE_D31_U	OUTHING L.T.	PDKKHÖKEPP	FLWMGYELHP	DKWTVODTTI.	DEVICTION
B_DE_HAN_U	OUTHING L.T.	PDKKHQKEPP	FLWMGYELHP	DKWTWODTW.	DEVICUMENT
B_FR_HXB2_	OUTTINGT.I.I.	PDKKHOKEPP	FLWMGYELHP	DKWTWODTW.	DEVICUMINATION
B_GA_OYI	SITTING AGE I I	PDKKHÖKRÞÞ	FLWMGYELHP	DKWTVOPIMI.	DEKDGMMVD FEROSMI AMD
B_GB_CAM1_	<b>AUTHUMORITY</b>	PDKKHÖKEPP	FLWMGYELHP	DKWTVQPIML	PEKLJ GRAMAND FRICTORM I AMD
B_GB_GB8_A	QHLLRWGFST	PDKKHQKEPP		DKWTVQPIVL	PEKDOMIAND FRICOSMIAND
B_GB_MANC_	QYLLKWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVQPITL	LEKTOMI AMD
B_KR_WK_AF		PDKKHQKEPP	FLWMGYELHP	DKWTVQPIVL	PEKDOMIAMD FEKDOMIAMD
B_NL_3202A		PDKKHQKEPP		DKWTVQPIVL	PEKDOMI AMD
B_TW_TWCYS		PDKKHQKEPP	FLWMGYELHP	DKWTVQPIVL	PEKDOMMAND
B_US_BC_L0	QHLLRWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVQPIVL	PENDOMINAD
B_US_DH123		PDQKHQKEPP	FLWMGYELHP	DKWTVQPIVL	PEKDSWIAND
B_US_JRCSF		PDKKHQKEPP	FLWMGYELHP		PEKDSMIAND
B_US_MNCG_	RHLLRWGFTT	PDKKHQKEPP		DKWTVQPIVL	PEKDOMINAD
B_US_P896_	QHLLKWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVQPIVL	PENDOMINAD
B_US_RF_M1	EHLLKWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVQPIVL	PEKDOMINAD PEKDOMINAD
B_US_SF2_K	QHLLRWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVODIMI.	PEKDSWIAM
B_US_WEAU1	QHLLRWGFTT	PDKKHOKDPP	FLWMGYELHP	DKWTWODIKI.	PEKEGMENE
B_US_WR27_	QHLLRWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVODTET.	PEKESWIVAD
B_US_YU2_M	QHLLRWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVODTVI.	PEKDOMIAM EEVDOMIAMD
BF1_BR_93B	QHLLRWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVOPTVT.	SEKDOMIAMD SEKDOMIAMD
C_BR_92BR0	EHLLKWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVOPTOT.	LEKDOMINED LEKTONING
C_BW_96BW0	EHLLKWGLTT	PYKKHQKEPP	FLWMGYELHP	DKWTVOPTOT.	LEVOSMIAMO
C_BW_96BW1	KHLLRWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVOSTKI.	PEKECMMAM
C_BW_96BW1	EHLLKWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVODIOI.	LEVESMIAND
C_BW_96BW1	KHLLRWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTWODIEL	DEKECMMAND FRICESMIAND
C_ET_ETH22	EHLLKWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVODIOI.	PEKESMIAND
C_IN_93IN1	EHLLKWGFTT	PDKKHOKEPP	FLWMGYELHP	DKWTWODIOI.	PEKDSMIAND
C_IN_93IN9	GHLLKWGFTT	PDKKHOKEPP	FLWMGYELHP	DKMIMOPTOL	PEKDSMIAND
C_IN_93IN9	QHLLRWGFTT	PDKKHOKEPP	FLWMGYELHP	DKMINODIOL	PEKDOMINAD
C_IN_94IN1	EHLLKWGFTT	PDKKHOKEPP	FLWMGYETHD	DKMAAODTOL	LEVINORIANDA LEVINOMIAND
C_IN_95IN2	KHLLRWGFTT	PDKKHOKEPP	FLWMGYELHP	DKMLAUUDTU1	E EVTOMIAND
CRF01_AE_C	DHLLKWGFTT	PDKKHOKEPP	FLWMGYETHD	DEMLANDIE:	LEVIDOMIAM PARTICIPATION TO THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF TH
CRF01_AE_C	AHLLSWGFTT	PDKKHOKEPP	FLWMGYELHD	DBMLMODIM ~~~~ A XSIED	E EVIDOMINADA E EVIDOMINADA
CRF01_AE_C	AHLLSWGFTT	PDKKHOKESP	FLWMGVET.HP	DDMM//ODIOL	LEVNOMIAND
CRF01_AE_T	AHLLSWGFTT	PDKKHOKEPP	FLWMGVFTUD	DDMMなるシェニュ 〜VM T A A B A T A T	FUVESMIADD
	AHLLSWGFTT	PDKKHOKEPP	FIWMGVELUD	DDMM/ODID: DVMTAÄLTRP	PEKDSWIAND
CRF01_AE_T	AHLLSWGFTT	PDKKHOKEPP	FLWMGVPLUD	DDMM/ODエロ・ PVMT A A A L T R T L	PEKUSWTVND
CRF01_AE_T	AHLLSWGFTT	PDOKHOKEDD	FI WMCVET UP	DEMMINOUS TO THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE PART OF THE P	PEKDSWTVND
		zX-MIFF	- mungiphil	PKMIAŐBIBP	PEKDSWTVND

CRF01 AE T	AHLLSWGFTT	DUKKAOKEDD	THE WAY COME THE		
CRF01 AE T	AHLLSWGFTT	PGKKHQKEPP	FLWMGYELHP	DRWTVQPIEL	PEKDSWTVND
CRF02 AG F	EHLLKWGFTT			DRWTVQPIEL	PEKDSWTVND
CRF02 AG F	EHLLKWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVQPIQL	PEKDSWTVND
CRF02_AG G	EHLLRWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVQPIQL	PEKDSWTVND
CRF02_AG_G		PDKKHQKEPP	FLWMGYELHP	DKWTVQPIML	PEKDSWTVND
CRF02_AG_N CRF02_AG_S	GHLLKWGFTT	PDKKHQKEPP	FLWMGYELHP		PEKDSWTVND
	EHLLRWGFTT	PDEKHQKEPP	FLWMGYELHP		PEKDSWTVND
CRF02_AG_S	EHLLKWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVQPIQL	PEKDSWTVND
CRF03_AB_R	EHLLRWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVQPIVL	PEKDSWTVND
CRF03_AB_R	DHLLRWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVQPIVL	PEKDSWTVND
CRF04_cpx_	EHLLRWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVQPIQP	AEKDSWTVND
CRF04_cpx_	EHLLRWGFYT	PDKKHQKEPP	FLWMGYELHP		PEKDSWTVND
CRF04_cpx_	EHLLRWGFFT	PDQKHQKEPP	FLWMGYELHP	DKWTVQPIQL	VEKESWTVND
CRF05_DF_B	EHLLAWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVQPIQL	PDKDSWTVND
CRF05_DF_B	EHLLKWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVQPIQL	PNKDSWTVND
CRF06_cpx_	EHLLKWGLTT	PDKKHQKEPP	FLWMGYELHP	DKWTVQPIQL	PDKESWTVND
CRF06_cpx_	EHLLKWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVQPIOL	PNKESWSIND
CRF06_cpx_	EHLLKWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVQPIOL	PDKDSWTVND
CRF06_cpx_	AHLLKWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVOPIOL	PDKDSWTVND
CRF11_cpx_	KHLLRWGLTT	PDKKHQKEPP	FLWMGYELHP	DKWTVOPIOL	PDKECWTVND
CRF11_cpx_	KHLLKWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVOPIOL	PDKESWTVND
D_CD_84ZR0	EHLLRWGLTT	PDKKHQKEPP	FLWMGYELHP		PEKESWTVND
D_CD_ELI_K	EHLLRWGFTR	PDKKHQKEPP	FLWMGYELHP		PEKESWTVND
D_CD_NDK_M	EHLLRWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVOPINI.	PEKESWTVND
D_UG_94UG1	GHLLKWGFTT	PDKKYOKEPP	FLWMGYELHP		PEKESWTVND
F1_BE_VI85	EHLLRWGFTT	PDKKHQKEPP	FLWMGHELHP		PNKDSWTVND
F1_BR_93BR	EHLLKWGLTT	PDKKHQKEPP	FLWMGYELHP	DKMAMOBIOL	PDKDSWTVND
F1_FI_FIN9	EHLLKWGFTT	PDKKHOKEPP	FLWMGYELHP	DKMLAOLTOT	PDKDSWTVDD
F1_FR_MP41	EHLLKWGFTT	PDKKHQKEPP	FLWMGYELHP	DKMAAODTOL	PEKDSWTVND
F2 CM MP25	EHLLRWGFTT	PDKKHQKEPP	FLWMGYELHP		PDKSSWTVND
F2KU BE VI	EHLLRWGFFT	PDEKHQKEPP	FLWMGYELHP		
G BE DRCBL	EHLLRWGFTT	PDKKHQKEPP	FLWMGYELHP		PDKEDWTVND
G NG 92NG0	EHLLKWGLTT	PDKKHQKEPP	FLWMGYELHP		PNKENWTVND
G SE SE616	EHLLKWGFTT	PDKKHQKEPP	FLWMGYELHP		PEKEDWTVND
H BE VI991	AHLLRWGFTT	PDQKHQKEPP	FLWMGYELHP	DKWTVQPIQL	
H BE VI997	AHLLRWGFTT	PDKKHQKEPP	FLWMGYELHP	DKWTVQPVKL	
H_CF_90CF0	AHLLKWGFTT	PDKKHQKEPP	FLWMGYELHP	DKMINOMAK	
J SE SE702	EHLLKWGFYT	PDKKHQKEPP	FLWMGYELHP	DKWTVQTVKL	
J_SE_SE788	EHLLKWGFTT		FLWMGYELHP	DKWTVQPIQL	
K CD EQTB1	EHLLRWGFTT			DKWTVQPIQL	PEKEDWTVND
K CM MP535	EHLLKWGFTT			DKWTVQPIQL	PDKDSWTVND
N CM YBF30	DHLLKWGFTT	DIKKRUKEDE	FLWMGYELHP	DKMIAŐbIŐP	PDKDSWTVND
O_CM_ANT70		DUKKHUKEUD	FLWMGYELHP.	DKMIAŐbIKT	PEKDVWTVND
O CM MVP51	EHLYOWGETT	DUKKHUKEDD	FLWMGYELHP	DKMIAÖZIÖT	PNKDVWTVND
O SN 99SE	EHI-YOWGETT	DUKKRUKEDD	FLWMGYELHP	DKMIAÖbIÖP	PDKEVWTVND
O_SN_99SE_	EHI VOWGETT	PDKKROKEDD	FLWMGYELHP	DKMIAÖbIÖP	PNKEEWTVND
U CD 83C	AHT.I.DWGFTT	PDKKHOKEDD	FLWMGYELHP	DKMIAŐbIŐP	PNKEEWTVND
0_00000	MIDDINGETT	PDKKHQKEPP	FLWMGYELHP	DKMIAÖbiÖr	PNKDDWTVND
	451				
00BW0762_1		3.00T1170			500
00BW0768_2	TOKT AGATIMA	ASQIYPGIKV	RQLCKLLRGA	KALTDIVPLT	EEAELELAEN
00BW0788_2 00BW0874_2	TOKT VOKTAW	ASQLYPGIKV	RQLCRLLRGA	KVLTDIVPLT	EEAELELAEN
00BW1471_2	TOKTIVEKTINM	ASQLYPGIKV	RQLCKLLRGT	KALTDIVPLT	EEAELELAEN
00BW1471_2 00BW1616 2	TÖKTAGKTWM	ASQIYAGIKV	ROLCKLLRGA	KALTOTVPLT	REART.ET.A EM
	TOYPAGKTWM	ASQIYPGVKV	KQLCKLLRGT	KALTDIVPLT	EEAET.ET.AEM
00BW1686_8	TÖKTAGKTUM	ASQIYSGIKV	KOLCKLLRGT	KALTOTVOLT	REARIET.APM
00BW1759_3	TÖKTAGKTUM	ASQIYPGIKV	KQLCKLLRGA	KALTOTVPLT	REARLELARM
00BW1773_2	TOKTAGKTUM	ASQIYPGIKV	ROLCKLLRGA	KALTDTVDT.T	REART.RIAEM
00BW1783_5	TÖKTAGKTUM	ASQIYPGIKV	RQLCKLLRGA	KALTDIVPLT	REARTELARM
00BW1795_6	TÖKTINGKTUM	ASQIYPGIKV	TQLCKLLRGA	KALTDTVPI.T	DEART.RI.ARM
00BW1811_3	TÖKTAGKTMM	ASQIYSGIKV	RQLCKLLRGT	KALTDTVPt.T	DEARTRIAEM
00BW1859_5	TÖKTAĞKTIM	ASQIYAGIKV	KQLCKLLRGA	KALTDIVPLT	EEAELELAEN

00BW1880_2	IQKLVGKLNW	ASQIYKGIKV	KOLCKLLRGA	KAT TOT WOLD	EEAELELAEN
00BW1921_1	- X100 1 01001111	WOOTINGTVA	KULCKLIERGT	יי דרונידרויית לא	
00BW2036_1	T STOTA OTOTAL	WOOTIEGIKA	KOPCKPPSZ	Katan time	THE R PERSON A PROPERTY OF
00BW2063_6	T & LOT A G LOTTIAN	MOOTIFICIEV	ייטריכיגדיניטקיז	LY LUID LIST H	
00BW2087_2	TOTALACIONIN	MOOTIPGIKV	KOLCKTTRAT	KNT.TITITE H	
00BW2127_2	T Z 1 CT A CT CT I M	MOOTIFICATION	ROTCKTTBGD	Katanatan e	THE REPORT OF A STATE OF
00BW2128_3	IQKLVGKLNW	ASQIYPGIKV	ROLCKLIRGT	Kaludivedi Kaludivedi	EEAELELAEN
00BW2276_7	T & YOU A GYOTHAM	ASOTIPGIKA	ROUCKTIDGA	KNT.MINTSINT III	
00BW3819 <u>3</u>	IQKLVGKLNW	ASQIYPGIKV	ROLCKLIRGA	Kaludia	EEAELELAEN
00BW3842_8	TOTAL	ASOTIPGIKA	KOLCKTJDCT	アメア・カンフェ ロン・ロー・アメール	7777777
00BW3871_3	TOTAL A GLOTIA M	APOTIFICATION	KOLCKIIDGT	Kat. Triattant m	TIDA DI DI DONO
00BW3876_9	IQKLVGKLNW	ASQIYPGIKV	RHLCRLLRGA	KVITOTABLE	EEAELELAEN
00BW3886_8	IQKLVGKLNW	ASQIYTGIKV	ROLCKLIRGA	KVITOITOIT	EEAELELAEN
00BW3891 <u></u> 6	T OYOU A G VOTIVM	ASQLYAGIKV	ROLCKTTRGA	Katanatana m	יייי דו דון לוווו
00BW3970 <u>2</u>	T A VITTA A G VITTA M	MOUTTEGIKA	KOLCKLIDGT	KNT.TITTIOT IN	DDADI DI ST
00BW5031_1	IQKLVGKLNW	ASQIYPGIKV	ROLCKLLRGA	KVI DDIME W	EEAELELAEN
96BW01B21	IQKLVGKLNW	ASOIYPGIKV	ROLCKLIBGA	KATIDIANI	EEAELELAEN
96BW0407	TÄIMINGVIIM	ASOTABGTKA	RHTICKTITIRGIA	KATOOTTOOT III	DDS Dr Dr S
96BW0502	T GIVTI A GIVTIMA	MOUTIPGIKA	ROLCKTTRGA	Ky Lunitains w	777777777
96BW06_J4	IQKLVGKLNW	ASOIYPGIKV	ROLCKLLDGT	KATITOAASTI	EEAELELAEN EEAELELAEN
96BW11_06	IQKLVGKLNW	ASOIYPGVKV	ROLCKLIDGA	WATITO A SET IN	EEAELELAEN EEAELELAEN
96BW1210	IQKLVGKLNW	ASOLYPGIKV	ROLCKIT.PCV	KATIDIANI.	eeaelelaen Eeaelelaen
96BW15B03	IQKLVGKLNW	ASQIYPGIKV	ROLCKI LRGV	KATIDIATE	EEAELELAEN
96BW16_26	IQKLVGKLNW	ASOIYPGTKV	ROT.CKT.T.DCA	KATITATA PLI	EEAELELAED EEAELELAEN
96BW17A09	IQKLVGKLNW	ASOLYAGIKV	KOLCKLIDGA	KWPIDIIADI.	EEAELELAEN EEAELELAEN
96BWM01 5	IQKLVGKLNW	ASQIYPGIKV	ROLCKLINGA	KWT.IDTABPL	EEAELELAEN
96BWM03 ²	VQKLVGKLNW	ASQIYPGIKV	KOLCKILDON	KWT.IDIALI.	DEAELELAEN
98BWMC12_2	IQRLVGKLNW	ASQIYSGIKV	ROLCKLI DCA	KATIDIANI.	EEAELELAEN
98BWMC13 4	IQKLVGKLNW	ASQIYPGIKV	KOLCKLIDGA	KATIDIANI	EEAELELAEN
98BWMC14 a	IQKLVGKLNW	ASQNYPGIKV	POLCKLI DOW	VATIDIANT.	EEAELELAEN
98BWM014 1	IQKLVGKLNW	ASQIYPGIKV	KOLCKLIBGY	KALIDIVPL	EEAELELAEN
98BWM018 d	IQKLVGKLNW	ASQIYPGIKV	POLCKI TROT	VAPIDIANIA.	EEAELELAEN
98BWM036 a	IQKLVGKLNW	ASQIYPGIKV	KMICKITEGI	KVP.I.D.I.A.F.L.	EEAELELAEN
98BWM037_d	IQELVGKLNW	ASQIYSGIKV	KOLCKLIRGA	VAPIDIANT W	EEAELELAEN
99BW3932 1	IQKLVGKLNW	ASQIYPGIKV	POLCKT LPCA	VWT.IDIALT.	EEAELELAEN
99BW4642 <u>4</u>	IQKLVGKLNW	ASQIYPGIKV	ROLCKI LDGA	VAPIDIANT.	EEAELELAEN
99BW4745_8	IQKLVGKLNW	ASQIYPGIKV	ROLCKLI.ROM	VATIDIANT.	EEAELELAEN
99BW4754_7	IQKLVGKLNW	ASQIYPGIQV	KOLCKI I DCA	KATIDIALL	EEAELELAEN
99BWMC16_8	IQKLVGKLNW	ASQIYPGIKV	ROT-CKT.T.PGA	KATIDIAST	EEAELELAEN
A2_CD_97CD	IQKLVGKLNW	ASQIYAGIKV	POLCKLIDON	VAPITDI ABPI.	EEAELELAEN
A2_CY_94CY	IQKLVGKLNW	ASQIYAGIKV	KOLCKLIDES	KALTDIVPL	REAELELEEN
A2D97KR	IQKLVGKLNW	ASQIYAEIKV	KOLCKLLDGA	KALIDIVILI	KEAELELEEN
A2G_CD_97C	IQKLVGKLNW	ASQIYPGIKV	KOLCKLLDCT	KATIDIANT.	KEAELELEEN
A_BY_97BL0	IQKLXGKLNW	ASQIYPEIKV	ROLCKLLXGY	VALUETASPI	AEAELELAEN
A_KE_Q23_A	IQKLVGKLNW	ASQIYAGIKV	KOLCKLIDGA	KALIDIAMI E	EEAELELAEN
A_SE_SE659	IQKLVGKLNW	ASQIYPGIKV	KOT-CDT-T-DCN	KALIDAALTA	EEAELELAEN
A_SE_SE725	IQKLVGKLNW	ASQIYAGIKV	KOLCPLI.PGA	VATIDIANT.	EEAELELAEN
A_SE_SE753	IQKLVGKLNW	ASQIYAGIKV	POLCKLI DCA	VATITUTATION.	EEAELELAEN
A_SE_SE853	IQKLVGKLNW	ASQIYAGIKV	KOLCKLIDGA	VATIDIALT	EEAELELAEN
A_SE_SE889	IQKLVGKLNW	ASQIYVGIKV	KOLCKLIDGA	VATIDIALITA.	EEAELELAEN
A_SE_UGSE8	IQKLVGKLNW	ASQIYAGIKV	KOLCKLI.DCA	VATIDIALL	EEAELELAEN
A_UG_92UG0	IQKLVGKLNW	ASQIYAGIKV	KOI.CKI.I.DCT	VALIDIAL I	EEAELELAEN
A_UG_U455	IOKTAGKTAM	ASOLYAGIKY	KUI-CKI-I:DCV	VAPIDIAL D	EEAELELAEN
AC_IN_2130	IOKTAGKTAM	ASOIYPGTKV	ROLCOLLEGA	WANTINIAL	EEAELELAEN
AC_RW_92RW	IQKLVGKLNW	ASOTYPONKY	DOI'GKI I DOM	VATITUTATE	EEAELELAEN
AC_SE SE94	IOKTAGKTAW	ASOTYACTKY	KUI'GKI I BGB	VATITUTATE T	EEAELELAEN
ACD_SE_SE8	IQKLVGKLNW	ASOIVPCTKV	KUI GET I DON	VOLIDAALT	EKARLELAEN
ACG_BE_VI1	IQKLVGKLNW	ASOTYPOTKY	MONTGKT L DG2	TATANATA	EEAELELAEN
AD_SE_SE69	IQKLVGKLNW	ASOTYPOTKY	POLCKGTDG2	VATIDIAL	EEAELELAEN
AD_SE_SE71	IQKLVGKLNW IQKLVGKLNW	ASOIVAGIKV	KOL'GRGI DGY	VALIEVVPLT	EEAELELAEN
ADHK_NO_97	IQKLVGKLNW	ASOTYPOTKY	NOTICEL 1 DOM	VATIETALFL	EEAELELAEN
<del>-</del> -	IQKLVGKLNW	×	убискипкед.	VALIDIALIT	aeaelelaen

ADK CD MAI	TOWN MOVE AND				
AG_BE_VI1	TOKT VCKT MA	ASQIYPGIK	V KQLCKLLRG	A KALTDIVPL	T AEAELELAEN
AG_NG 92NG	TOKINGKLINW	ASQLYAGIR	V KQLCKLLRG	A KALTDIVTL	T AEAELELAEN T EEAELELAEN
AGHU_GA_VI		ASQIYPGIK	V KQLCKLLRG	A KALTDIVPL	T EEAELELAEN T EEAELELAEN
AGU_CD Z32					
AJ_BW_BW21	TOKT VGKTINW	ASQIYPGIK	/ KQLCKLLRG	T KALTDIVPL	r beaelelaen R aeaelelaen
B_AU_VH_AF					
B_CN_RL42					
B_DE_D31 U					
B_DE_HAN_U					
B_FR_HXB2					
B GA OYI	TOKTAKKTAK	ASQLYPGIKV	RQLCKLLRG	r kaltevipli	r keaelelaen r eeaelelaen
B GB CAM1					
B_GB_GB8_A	TOKT-VCKT-MM	ASQLIAGIKV	KQLCKLLRG'	r kaltevvelj	r eeaelelaen Reaelelaen
B GB MANC					
B KR WK AF					
B NL 3202A					
B_TW_TWCYS					
B US BC LO	TOKTAGKTANIA	ASQLIAGIKV	RQLCKLLRG	r Kaltevvelt	' EEAELELAEN ' KEAELELAEN
B US DH123					
B_US_JRCSF					
B_US_MNCG	IOKLVGKTAW	ASOTVACTOR	KQLCKLLRGT	KALTEVIPLT	' EEAELELAEN ' KEAELELAEN
B_US_P896					
B_US_RF_M1					
B US SF2 K					
B_US_WEAU1					
B US WR27					
B_US_YU2_M					
BF1_BR_93B					
C_BR_92BR0					
C_BW_96BW0	IQKLVGKLNW	ASOTYPGTRV	KAPCKPPKGV	KALTEVVPLT	EEAELELAEN
C_BW_96BW1	IQKLVGKLNW	ASOTYPGVKV	MUTCKTT BOX	KALTDIVPLT KALTDIVPPT	EEAELELAEN
C_BW_96BW1	IQKLVGKLNW	ASOTYPGTKV	POLCETT POT	KALTDIVPPT	EEAELELAEN
C_BW_96BW1					
C_ET_ETH22					
C_IN_93IN1	IQKLVGKLNW	ASOIYPGIKV	ROLCKLIDEGA	KALTDIVTLT KALTDIVPLT	EEAELELAEN
C_IN_93IN9					
C_IN_93IN9					
C_IN_94IN1					
C_IN_95IN2					
CRF01_AE_C					
CRF01_AE_C					
CRF01_AE_C	IQKLVGKLNW	ASQIYAGIKV	KOLCKTTRGA	KVI ADIADIA W	EEAELELAEN
CRF01_AE_T					
CRF01_AE_T					
CRF01_AE_T					
CRF01_AE_T	IQKLVGKLNW I	ASQIYAGIKV	KOLCKLLRGA	KALTDIVELT	EEAELELEEN
CRF01_AE_T					
CRF01_AE_T					
CRF02_AG_F					
CRF02_AG_F					
CRF02_AG_G					
CRF02_AG_N					
CRF02_AG_S					
CRF02_AG_S					
CRF03_AB_R					
CRF03_AB_R					
CRF04_cpx_					
CRF04_cpx_					
CRF04_cpx_					
CRF05_DF_B	IQKLVGKLNW A	SQIYPGIKV H	QLCKLLRGT	KALTEVIDIT	SEVETET VEN
•			•		cmiticitatil

CRF05_DF_B	IQKLVGKLNV	ASQIYPGIK	/ KOLCKLIRG	י זמנאנישיתי.זמדי	r eeaele <u>lae</u> n
CRF06_cpx_	- 5-m 10101111	, WOOTIEGIV	/ KOLCKLIDE1	\	
CRF06_cpx_	- 5-cc - CTCD141	, wortiogiv,	/ ROLCKLLDC1	יו ארשונים לעוד (	
CRF06_cpx_	~ 5.00 1 OTOTAL	, WOOTTEGTV/	/ KHICKI.I.DC1	\	
CRF06_cpx_	- 5-cm ( O'CTITAL)	A WOOTIEGIK!	/ K() .('K[.T.D/27	\	
CRF11_cpx_	- K 1 C107711	, WOOTIEGIV	/ KOLCKLIDA1	י צאד יייי די די די מ	
CRF11_cpx_	- E 1010TAL	, WOOTIWGIV	, KUHACKIALDIST	\	
D_CD_84ZRO	~ 5 v CO 1 CO TO IA IA	MOULIPGIK	/ KOLCKTJ.DC9	? VXI (DDXXXXXX	
D_CD_ELI_K	- 5-1 1 T/TITA	, WOOTIEGIKA	KOPCKPPBB	י ארד דו אים ידי או אלא יי	
D_CD_NDK_M	- X 1 C1CHIA	, WOOTINGTVA	KOBCKIJDAT	, 12 N T max 11 17 N L	3
D_UG_94UG1	THE STORY & CICHTAN	HOOTIPGIKV	יים סגדיזאיז וווא א	・ アスプ かけけててってっ	
F1_BE_VI85	- X 1 CTCT111	I WOOTIEGIKA	KANIKIIIDUN	TO A TOTAL TRANSPORT	
F1_BR_93BR	~ 5 1010TM	- TOOTIEGIVA	KONCKINDOM	V N I (111) T T I I I I I	
F1_FI_FIN9	T SYCH A CITCHIAN	MOVITAGTKA	ענ <i>יו</i> ספרדדאיטוויטא	אי ארונאארוייו דאש	
F1_FR_MP41	- K TOTAL	MOUTIFULKI	KODECK LILDEAN		·
F2_CM_MP25	- 5-m - 010011	WPOTITEGIKA	KHIKKILIDAT	י דרת מולות לאוי	1 353
F2KU_BE_VI	- 5-m - 01/01/1/	· MOOTIFGIKA	KOLCKLTDAA	TOTAL COLUMN TOTAL CO.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
G_BE_DRCBL	T SYCH A CICHTAM	MOCTIPGIKA	KOLCKITRAX	KN L.TID TYZONAT	
G_NG_92NG0	~ 5	POOTIEGIKA	KHLCPLLDCX	Var marries -	
G_SE_SE616	- KICH A CICHTAM	MOOTIFGIKA	עבי פרד דאי אין איי	V71 mn T1101 m	
H_BE_VI991	- X 101011111	TOOTIEGIK A	KULLY'LLDZX	Var more trace	
<b>H_BE_VI997</b>	- X-00 1 OTCH111	MOOTIFGIKA	ROPCKPPDGV	Ky Ludians as	77773
H_CF_90CF0	- S-m A OTOTALM	WOOTITENTKA	KOLCKLIDEN	LENT THIS THE PER	************
J_SE_SE702	+ X A C 1 (TITA M	WOOTIEGIKI	KELICKLTDAN	LAL MULTINE W	
J_SE_SE788	- K 101011111	WOOTIEGIKA	KOLCKIJ.KON	12 N T (TIT) 7 T T T T T T T T T T T T T T T T T T	
K_CD_EQTB1	- Sign Colonia	MOOTERGIKA	KOLCKIJ.DOM	V	<b></b>
K_CM_MP535	- K 1 C1CD11 II	MOOTIFGIKA	KORCKI LIDEN		· · · · ·
N_CM_YBF30	m Kron COTOTIAN	MOOTIFGIRV	KOLCKI. IDOTT	Vat minitization	
O_CM_ANT70	~ STOTE OF CONTAIN	VOOTIOGIKA	RELUKLTDAT	KCI mountains a	
O_CM_MVP51	- X-00 1 CTCTIVI	POOTIOGIKA	KKIKKITDAT	KCI mustant a	77777
O_SN_99SE_	w Sign of CIGHTAM	V2GT I OGTKA	KRUCKLTPGA	KCI TETITO A	T/T12 797
O_SN_99SE_	- K 101011111	WOOT TOGTKA	KRICKLIPAT	COLUMN AND A	Yerran was well
n_cd83c	IQKLVGKLNW	ASQIYPGIQV	ROLCKLIRGT	KULUDIADAM	KEAELELEEN
		~		TOTATIOTATION	KEAELELAEN
	501				EEA
00BW0762_1	R.EILKEPVH	GVYYDPSKDL	IADIQKQGND	OWTYOTYOED	550
00BW0768_2		CATTDEGVIII	LAB: LUKUTATA		
00BW0874_2	W. TITHEPAN	GVYYDPSKDL	VARTOKOGOD	OMPVOTVODE	FKNLKTGKYA
00BW1471_2	V.VITUVDDANU	GVYYDPSKDI	TARTOROGUE	OWNINGTROOM	
00BW1616_2	K.ETTVEBAH	GVYYDPSKDI.	TARTOROGUE	OMBROTHORN	FKNLKTGKYA
00BW1686_8	V.DITIVED.AH	GVYYDPSKDI.	TARTOROGUD		FKNLKTGKYA
00BW1759_3	V. PITIVE'S AH	GAXXDESKEL	IAELOKOGND	QWTYQIYQEP	FKNLKTGKYA
00BW1773_2	K.EILKEPVH	GVYYDPSKDL	IAEIQKQGHD	QWTYQIYQEP	FKNLKTGKYA
00BW1783_5	R.EILKEPVH	${\tt GVYYDPSKDL}$	KAEIQKQGND	QWTYQIYQEP	FKNLKTGKYA
00BW1795_6	R.EILKEPVH	GVYYDPSKDL	IAEIQKQGHD	QWTYQIYQEP	FKNLKTGKYA
00BW1811_3	R.EILKEPVH	GAYYDPSKDL	IAEIQKQGHD	QWTYQIYQEP	FKNLKTGKYA
00BW1859_5	R.EILKEPVH	EVYYDPSKDL	IAEIQKQGHD	QWTYQIYQEP	FKNLKTGKYA
00BW1880_2	R.EILKEPVH	GVYYDPSKDL	IAEVQKQGDD	QWTYQIYQEP	LKNLKTGKYA
00BW1921_1	R.EILKEPVH	GVYYDPSKEL	IAEIQKQGQD	QWSYQIYQEP	FKNLKTGKYA
00BW2036_1	R.EILRGPVH	GVYYDPSKDL	VAEIQKQGHD	QWTYQIFQEP	FKNLKTGKYA
00BW2063_6	R.EILREPVH	GVYYDPSKDL	VAEIQKQGND	QWTYQIYQEP	FKNLKTGKYA
00BW2087_2	R.EILKEPVH	GVYYDPSKDL		QWTYQIYQEP	FKNLKTGKYA
00BW2127_2	R.EILKEPVH	GVYYDPSKDL			FKNLKTGKYA
00BW2128_3	R.EILKEPVH	GVYYDSSKEL			FKNLKTGKYA
00BW2276_7	R.EILKEPVH	GVYYDPSEDL			FKNLKTGKYA
00BW3819_3	R.EILKEPVH	GVYYDPSKDL	IAEIOKOGHD		FKNLKTGKYA
00BW3842_8	R.EILREPVH	GVYYDPSKDL			FKNLKTGKYA
00BW3871_3	K'ETPKEDAH	GVYYDPSKDL			FKNLKTGKYA
00BW3876_9	RXEILKEPVH	GVYYDPSKDL			YKNLKTGKYA
00BW3886_8	R.EILKGPVH	GVYYDPSKDL	IAEIOKOGOG		FKNLKTGKYA
00BW3891_6	R.EILKEPVH	GVYYDPSKDL	IAEIOKOGNG		FKNLKTGKYA
				X-1 ARE	HINDINGKIH

00BW3970 2	R.EILREPVH	GVYYDPSKDL	IAEIQKQGND	OMMACTACED	DIOIT IMOTOTA
00BW5031 1	R.EILREPVH		IAEIQKQGDD	QWTYQIYQEP QWTYQIYQEP	
96BW01B21	R.EILKEPVH		IAEIQKQGHD	QWIYQIYQEP	FKNLKTGKYA
96BW0407	R.EILKEPVH		IAEVQKQGHY		FKNLKTGKYA
96BW0502	R.EILKEPVH		IAEIQKQGHD	OWTYQIYQEP	FKNLKTGKYA
96BW06 J4	R.EILKEPVH		IAEIQKQGQD	QWTYQIYQEP	FKNLKTGKYA
96BW11 06	R.EILKEPVH			QWTYQIYQEP	FKNLKTGKYA
96BW1210	R.EILKEPVH		IAEIQKQGGD	QWTYQIYQEP	FKNLKTGKYA
96BW15B03			IAEIQKQGHD	QWTYQIYQEP	FKNLKTGKYA
96BW16 26	R.EILREPVH		VAEIQKQGHD	QWTYQIYQEP	FKNLKTGKYA
96BW18_26	R.EILKEPVH		IAEIQKQGHD	OMITAGIAGED	FKNLKTGKYA
	R.EILKEPVH		IAEIQKQGNG	QWTYQIYQEP	FKNLKTGKYA
96BWM01_5	R.EILREPVH		IAEIQKQGHD	QWTYQIYQEP	FKNLKTGKYA
96BWM03_2	R.EILKEPVH		IAEIQKQGDD	QWTYQIYQEP	HKNLKTGKYA
98BWMC12_2	R.EILKEPVH		IAEIQKQGYD	QRTYQIYQEP	FKNLKTGKYA
98BWMC13_4		GVYYDPSKDL		QWTYQIYQEP	FKNLKTGKYA
98BWMC14_a	R.EILKEPVH		IAEIQKQGND	QWTYQIYQEP	FKNLKTGKYA
98BWM014_1	R.EILKEPVH		IAEIQKQGHD	QWTYQIYQEP	FKNLKTGKYA
98BWM018_d	R.EILKEPVH		IAEIQKQGDD	QWTYQIYQEP	FKNLKTGKYA
98BWMO36_a	R.EILKEPVH		IAEIQKQGHD	QWTYQIYQEP	FKNLKTGKYA
98BWM037_d	R.EILKEPVH		IAEIQKQGQD	QWTYQIYQEP	FKNLKTGKYA
99BW3932_1	R.ELLKEPVH		ITEIQKQGHD	QWTYQIYQEP	FKNLKTGKYA
99BW4642_4	R.EILKEPVH	GVYYDPSKDL	IAEVQKQGCE	QWTYQIYQEP	FKNLKTGKYA
99BW4745_8	R.EILKEPVH	GVYYDPSKDL	IAEVQKQGND	QWTYQIYQEP	FKNLKTGKYA
99BW4754_7	R.EILKEPVH	GVYYDPSKDL	IAEIQKQGNG	QWTYQIYQEP	FKNLKTGKYA
99BWMC16_8	R.EILKEPVH	GVYYDPSKEL	IAEIQKQGND	QWTYQIYOEP	FKNLKTGKYA
A2_CD_97CD	R.EILKDPVH	GVYYDPSKDL	IAEIQKQGQG	QWSYQIYQEP	FKNLKTGKYA
A2_CY_94CY	R.EILKTPVH		IAEIQKQGQD	QWTYQIYQEP	FKNLKTGKYA
A2D 97KR	R.EILKDPVH		IAEVQKQGPD	QWTYQIYQEP	FKNLKTGKYA
A2G CD 97C	R.EILKEPVH		IAEVQKQGLD	QWTYQIYQEP	YKNLKTGKYA
A BY 97BL0		XVYYDPSKDL	VAEIQKQGQD	QWTYQIYQEP	FKNLKTGKYA
A KE Q23 A	R.EILKEPVH		IAEIQKQGQD	QWTYQIFQEP	FKNLKTGKYA
A SE SE659	R.EILKDPVH		IAEIQKQGQD	QWTYQIYQEP	FKNLKTGKYA
A SE SE725	R.EILKDPVH		IAEIQKQGLD	QWTYQIYQEP	
A SE SE753	R.EILKDPVH		IVEIQKQGQD	QWTYQIYQET	FKNLKTGKYA FKNLKTGKYA
A SE SE853	R.EILKAPVH		IAEIQKQGQD	QWTYQIYQEP	
A SE SE889	R.EILKDPVH		IAEIQKQGQD	QWTYQIYQEP	FKNLKTGKYA
A_SE_UGSE8		GVYYDPSKDL	IAEIQKQGQD	QWTYQIYQEP	FKNLKTGKYA
A UG 92UG0	R.EILKDPVH		IAEIQKQGQD		FKNLKTGKYA
A_UG_U455		GVYYDPSKDL	VAEIQKQGQD	QWIYQIYQEP	FKNLKTGKYA
AC IN 2130	R.EILKEPVH		IAEIQKQGQD	QWTYQIYQEP	FKNLKTGKYA
AC RW 92RW		GVYYDPSKDL	IAEIQKQGUD	QWTYQIYQEP	FKNLKTGKYA
AC SE SE94				QWTYQIYQEP	FKNLKTGKYA
ACD_SE_SE8	R. ETT-KDPVH	GALIDERICH	TYETOKOGOD	QWTYQIYQEP	FKNLKTGKYA
ACG_BE_VI1	B EII'KEDAH	CALIDESION	TAPTOROGOE	QWTYQIYQEP	FKNLKTGKYA
AD SE SE69	D EILKEDVE	GALIDEWIDE	VABIQKQGQD	QWTYQIYQEP	FKNLKTGKYA
AD_SE_SE71	D PILEDING	GATIDESKOT	TARTOKOGOD	QWTYQIYQEQ	YKNLKTGKYA
ADHK NO 97	D PILEPVI	GATIDESKOP	TAETOKOGOD	QWSYQIYQEQ	YKNLKTGKYA
ADK CD MAL	D ELLMENN	GALIDESKOT	TABLONGERG	QWTYQIYQEP	YKNLKTGKYA
AG BE VI11	D EILKEPVII	GVIIDPSKDL	TAETOKOGOG	QWTYQIYQEQ	YKNLKTGKYA
	R.BILKEPVH	GVYYDPGKEL	TAEIQKQGQD	QWTYQIYQEP	FKNLKTGKYA
AG_NG_92NG	R.EILKEPVH	GVYYDPSKEL	IAELQKQGCD	QWTYQIYQEP	YKNLKTGKYA
AGHU_GA_VI	R.EILKEPVH	GVYYDPSKDL	VAEVQKQGPD	QWTYQIYQEP	FKILKTGKYA
AGU_CD_Z32	R.EILKEPVH	GVYYDSSKEL	IAEVQKQGLN	QWTYQIYQEP	FKNLKTGKYA
AJ_BW_BW21	K.RITKEDAH	GVYYDSAKEL	IAEVQKQGLD	QWTYOIYOEP	FKNLKTGKYA
B_AU_VH_AF	K.EILKEPVH	GVYYDPSKDL	IAEVQKQEQG	QWTYOIYOEP	FKNIKTGKYA
B_CN_RL42_	R.BILKESVH	GVYYDPSKDL	IAEIQKQGLG	OWTYOIYOEP	YKNI,KTCKYA
B_DE_D31_U	R.EILKEPVH	GVYYDPSKDL	IAEIQKQGQG	OWTYOIYOEP	FKNLKTCKYA
B_DE_HAN_U	K.ETPKE5AH	GVYCDPSKDL	VAEIQKQGEG	QWTYQIYOEP	FKNLKTGKYA
B_FR_HXB2_	K'RITKEDAH	GVYYDPSKDL	IAEIQKQGQG	QWTYOIYOEP	FKNLKTGKYA
B_GA_OYI	R.EILKEPVH	GVYYDPSKDL	VAELQKQGQG	QWTYQIYOEP	FKNLKTGKYA
B_GB_CAM1_	R.EILKEPVH	GVYYDPSKDL	IAELQKQGQG	QWTYQIYOEP	FKNLKTGKYA
B_GB_GB8_A	R.EILKEPVH	GVYYDPSKDL	VAEIQKQGLG	QWTYQIYQEP	FKNLKTGKYA
			· <del>-</del>	· <b>-</b>	

D 60 W1116					
B_GB_MANC_	R.EILKVPVH	GVYYDPSKDL	TAEIQKQGQG	QWTYQIYQEP	FRSLKTGKYA
B_KR_WK_AF	TC - DT TITTE A LI	GATIDDAKDL	TARIOKOGOG		DENTI PROPERTY
B_NL_3202A	K. DINKEP VH	GATIDESKEP	TARIOKOGOG	OMTVOTVOPP	DUNIT DOWNERS
B_TW_TWCYS	W. THINGLAND	GWIIDESKUL	AWRI ÖKÖGÖĞ	QWTYQIYQET	FKNLKTGKYA
B_US_BC_L0	W. DITHWEBAU	GATADERKDF	IAEIQKQGQG	QWTYQIYQEP	FKNLKTAKYA
B_US_DH123		GVYYDPSKDI	IAEIQKQGQG	QWTYQIYQEP	FKNLKTGKYA
B_US_JRCSF	R.EILKEPVH	GVYYDPSKDL	IVEIOKOGOG	OWTVOTEOED	DEATT MINORAL
B_US_MNCG_	R.EILKEPVH	GVYYDPSKDL	IAEVQKQGQG	QWTYQIYOEP	FKNLKTGKYA
B_US_P896_	W. DITHKEP AU	GATIDLIKDL	TARLOKOGOG	QWTYQIYQEP	YKNI KTCKYA
B_US_RF_M1	R.EILKEPVH	GVYYDPSKDL	IAEIOKOGOG	OMTYOTYORD	PRAIL BUNGERA
B_US_SF2_K	R.EILKEPVH	EVYYDPSKDL	VAEIOKOGOG	OMTYOTYOFD	EVAIT VIDOVVA
B_US_WEAU1	W. BITHWED AU	GATIDESKOP	TAELOKOGOG	ΟΨΥΥΟΤΥΟΕΌ	PKNIT KITCIKAN
B_US_WR27_	V.PITIVE SVU	GATADESYDF	VAELOKOGXG	OWTVOTVORD	PTVI VIIVIVIA
B_US_YU2_M	K · ETTKE DAH	GVYYDPSKDL	IAEIOKOGOG	OWTYOTYOED	PKNT.KTCKVA
BF1_BR_93B	K.PITKEBAN	GATADESKDF	IAEIOKOGOG	OMTVOTVOED	YKNII.KTCKYN
C_BR_92BR0	K.EITVEDAH	GVYYDPSKDL	IAEIOKOGON	OMITAULAU	FKNLKTGKYA
C_BW_96BW0	R.EILKEPVH	GVYYDPSKDL	IAEVOKOGHD		FKNLKTGKYA
C_BW_96BW1	R.EILKEPVH	GVYYDPSKDL	IAEIOKOGGD		FKNLKTGKYA
C_BW_96BW1	R.EILKEPVH	GVYYDPSKDL	IAEIOKOGHD	QWTYQIYQEP	FKNLKTGKYA
C_BW_96BW1	R.EILREPVH	GVYYDPSKDL	VAEIOKOGHD	QWTYQIYQEP	FKNLKTGKYA
C_ET_ETH22	R.EILKEPVH	GVFYDPSKDL	IAEIQKQGND	QWTFQFYQEP	FKNLKTGKFA
C_IN_93IN1		GVYYDPSKDL	IAEIQKQGQD	QWTYQIYQEP	FKNLKTGKYA
C_IN_93IN9		GVYYDPSKDL	IAEIQKQGQD	QWTYQVYQEP	FKNLKTGKYA
C_IN_93IN9	R.EILKEPVH	GVYYDPSKDL	IAEIOKOGOG	QWTYQIYQEP	
C_IN_94IN1	R.EILKEPIH	GVYYDPSKDL	TAETOKOGOD	QWTYQVYQEP	FKNLKTGKYA
C_IN_95IN2	R.EILKEPVH	GVYYDPSKDL	TARTOKOGOD	QWTYQIYQEP	FKNLKTGKYA
CRF01 AE C	R.EILKNPVH	GVYYDPSKEL	VARTOROGOD	QWTYQIYQEP	FKNLKTGKYA
CRF01 AE C	R.EILKTPVH	GVYYDPSKDL	VARIOROGOD	QWTYQIYQEP	FKNLKTGKYA
CRF01 AE C	R.EILKNPVH	GVYYDPSKDL	VARIOROGUM	QWIYQIYQEP	FKNLKTGKYA
CRF01 AE T	R.EILKTPVH	GVYYDPSKDL	VAEVOKOGOD	QWIYQIYQEP	FKNLKTGKYA
CRF01_AE_T	R.EILRTPVH	GVYYDPSKDL	ATEA OKOGOD		FKNLKTGKYA
CRF01 AE T	R.EILRIPVH	GVYYDPSKDL	ATTA OKOGOD	QWTYQIYQEP	FKNLKTGKYA
CRF01 AE T	R.EILKTPVH	GVYYDPSKDL	ATTA OKOGOD	QWTYQIYQEP	FKNLKTGKYS
CRF01_AE_T	R.EILKTPVH	GVYYDPSKDL	ANEAOROGOD MAEAOROGOD	QWTYQIYQEP	FKNLKTGKYA
CRF01_AE_T	R.EILKTPVH	GVYYDPSKDL	ATEA OKOGOD	QWTYQIYQEP	FKNLKTGKYA
CRF02 AG F	R.EILKEPVH	GVYYDPAKDL	TARIOROGOD	QWTYQIYQEP QWTYQIYQEP	FKNLKTGKYA
CRF02 AG F	R.EILKEPVH	GVYYDPAKDL	TYRIOKOGOD		FKNLKTGKYA
CRF02 AG G	R.EILKEPVH	GVYYDPTKDL	TWEIOROGOD	QWTYQIYQEP	FKNLKTGKYA
CRF02_AG_N	R.EILKEPVH	GVYYDPTKDL	MARIOROGOD	QWTFQIYQEP	FKNLKTGKYQ
CRF02_AG_S	R.EILKEPVH	GVYYDPTKDL	MARIOROGOD	QWTYQIYQEP	FKNLKTGKYA
CRF02 AG S	R.EILKEPVH	GVYYDPTKDL	1VEIOROGOD	QWTYQIYQEP	FKNLKTGKYA
CRF03_AB_R	R.EILKEPVH	GVYYDPSKDI.	VAEIQKQGQG	QWTYQIYQEP	FKNLKTGKYA
CRF03_AB_R	R.EILKVPVH	GVYYDDSKDI	VAEIQKQGQG	OMITATIONS	FKNLKTGKYA
CRF04_cpx_	R.EILKEPVH	GAYYDPSKDI	IAEIQKQGQG	OMINOTACED	FKNLKTGKYA
CRF04_cpx_	R.EILKEPVH	GAYYDDSKDI.	IAKIQKQGQG	OMITATIONS	HKNLKTGKYA
CRF04 cpx	R.EILKEPVH	GAVYDDSKDI.	IAEIQKQGLG	OWITOTYCEP	YKNLKTGKYA
CRF05_DF_B	R.EILKEPVH	GAAAD BEKDI'	TABLONOGLG	OWITYOTYOEP	YKNLKTGKYA
CRF05_DF_B	R.ETLKEDVH	GALIDERICH	IAEVQKQGLG	OMITA OTTA OED	FKNLKTGKYA
CRF06_cpx_	R.EILKEPVH	GALIDEATOR	IAEIQKQGQE	OMITY OF THE	FKNLKTGKYA
CRF06_cpx_	R. RII.KEDVH	GYANDERDI	IAEVQKQGYG	OMITY OF TYPE	HKNLKTGKYA
CRF06_cpx_	R. ETI-KEDVH	GYTTDESKDI	IAEIQKQGQG	OMITY OF THE	HKNLKTGKYA
CRF06_cpx_	R.EII.KEDIN	CALTACADO	IAELQKQGQG	ØM.T.XÕI.XÕED	HKNLKTGKYA
CRF11_cpx_	R EII'KEDIM	GVYYDPSKDL	IAEIQKQGQG	ZM.T.XÖIÄÖD.L	HKNLKTGKYA
CRF11_cpx_	R.EILKEPVH		~ ~	QWTYQIYQEP	FKNLKTGKYA
D_CD 84ZR0	R.EILKEPMH	GINADDG: 22	TAEVQKQGLD	QWTYQIYQEP	FKNLKTGKYA
D_CD_ELI_K	R.EILKEPVH		TAELQKQGQG	QWTYQIYQEP	FKNLKTGKYA
D_CD_NDK_M			TARTOKOGHG	QWTYQIYQEP	FKNLKTGKYA
D_UG_94UG1	R.EILKEPVH		TAELQKQGDG	QWTYQIYQEP	FKNLKTGKYA
F1_BE_VI85	R.EILKEPVH		TAEIQKQGQD	QWTYQIYQEQ	YKNLKTGKYA
F1_BE_V185 F1_BR_93BR	R.EILREPVH	GATIDESKDP	TAEIQKQGDG	QWTYQIYQNP	FKNLKTGKYA
F1_FI_FIN9	R.EILKEPVH	GALIDPSKDL	TARIOKOGOG	QWTYQIYQEP	FKNLKTGKYA
	R.EILKEPVH	GAIIDESKDŢ	TEKTŐKŐGŐĞ	QWTYQIYREP	FKNLKTGKYA

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F1_FR_MP41 R.EILKEPVH GVYYDPSKDL IAELQKQGQG QWTYQIYQEP FKNLKTGKYA
    F2 CM MP25 R.EILKEPVH GVYYDPSKDL IAEIQKQGHD QWTYQIYQEP HKNLKTGKYA
  F2KU_BE_VI R.EILKEPVH GVYYDPSKDL IAEIQKQGQG QWTYQIYQEP YKNLKTGKYA R.EILKEPVH GVYYDPSKDL IAEVQKQGLD QWTYQUYQEP YKNLKTGKYA GNG_92NG0 R.EILKEPVH GVYYDPSKEL IAEVQKQGLD QWTYQIYQEP YKNLKTGKYA GSE_SE616 R.EILREPVH GVYYDPSKEL IAEIQKQGPD QWTYQIYQEP YKNLKTGKYA H_BE_VI991 R.EILKEPVH GVYYDPSKDL IAEIQKQGPD QWTYQIYQEP FKNLKTGKYA H_CF_90CF0 R.EILREPIH GVYYDPSKDL IAEIQKQGPD QWTYQIYQEP FKNLKTGKYA JSE_SE702 K.EILKEPVH GVYYDPSKDL IAEIRKQQG QWTYQIYQEP FKNLKTGKYA GVYYDPSKDL IAEIQKQGDD QWTYQIYQEP FKNLKTGKYA IAEVQKQGLD QWTYQIYQEP FKNLKTGKYA GVYYDPSKDL IAEIQKQGDD QWTYQIYQEP FKNLKTGKYA IAEVQKQGLD QWTYQIYQEP FKNLKTGKYA GVYYDPSKDL IAEIQKQGHG QWTYQIYQEP FKNLKTGKYA IAEIQKQGHG QWTYQIYQEP FKNLKTGKYA IAEIQKQGHG QWTYQIYQEP FKNLKTGKYA IAEIQKQGHG QWTYQIYQEP HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQED HKNLKTGKYA IAEIQKQGHG QWTYQIYQDE HKNLKTGKYA IAEIQKQGHG QWTYQIYQDE HKNLKTGKYA IAEIQKQGHG QWTYQIYQDE HKNLKTGKYA IAEIQKQGHG QWTYQIYQDE HKNLKTGKYA IAEIQKQGHG QWTYQIYQDE HKNLKTGKYA IAEIQKQGHG QWTYQIYQDE HKNLKTGKYA IAEIQKQGHG QWTYQIYQDE HKNLKTGKYA IAEIQKA IAEIQKQGHG QWTYQIYQDE HKNLKTGKYA IAEIQKA IAEIQKQGH QWTYQIYQDE HKNLKTGKYA IAEIQKA IAEIQKA IAEIQKA IAEIQKA I
    F2KU_BE_VI R.EILKEPVH GVYYDPSKDL IAEIQKQGQG QWTYQIYQEP YKNLKTGKYA
   O_SN_99SE_ R.EKLKEPVH GVYYQPDKDL WVNIQKQGWG QWTYQIYQDE HKNLKTGKYT
O_SN_99SE_ R.EKLKEPVH GVYYQPDKDL WVNIQKQGKG QWTYQIYQDE HKNLKTGKYT
U_CD__83C R.EILKEPVH GVYYDPSKDL VAEIQKQGQD QWSYQIYQEP FKNLKTGKYA
                               551
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  00BW0768_2 KMRTAHTNDV KQLTEAVQKI AQESIVIWG. KTPKFRLPIQ KETWEIWWTD 00BW0874_2 KMRTAHTNDV KQLAEAVQKI ATESIVIWG. KTPKFRLPIQ RETWETWWTN
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  00BW5031_1 KIRTAHTNDV RQLTEAVQKI ALESIVIWG. KIPKFRLPIQ KETWETWWTD
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98BWMC13 4	אזרווגייינו גיייא כוא	VOI DENIONE	). Too.		
98BWMC14 a	KWDAYRAMINDA	KQLTEAVQKI KQLTEAVQKI	ALESIVIWG.	KIPKFRLPIQ	KETWETWWTD
98BWM014 1	KMDurknunder	KOLIBATIOKI	AMESIVIWG.	KTPKFRLPIQ	KETWETWWTE
98BWM018_1	MDUMINIMIA.	KQLTEAVQKI	ALESIVIWG.	KTPKFRLPIQ	KETWETWWTD
98BWM036 a		RQLTEAVQKI		KTPKFRLPIQ	KDTWETWWTD
98BWM037_d		KQLTEVVQKI			KDTWETWWTD
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99BW4745_8	VARIABLIANDA	KQLAEAVQKI	AVESIVIWG.	KTPKFRLPIQ	KETWETWWTD
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99BWMC16_8	KIRTAHTNDV	RQLTEAVQKI	TMECIVIWG.	KTPKFRLSIQ	KDTWETWWTD
A2_CD_97CD	KRKSTHTNDV	KQLTEAVQKI	ATESIVIWG.	KIPKFRLPIQ	KETWETWWTE
A2_CY_94CY	KRRSTHINDI	KQLTEAVQKI	TMESIVIWG.	KTPKFKLPIQ	KETWETWWAE
A2D97KR	KRRSTHTNDV	KQLTEAVQKI	VMESIVIWG.		KETWETWWTE
A2G_CD_97C	KRGSAHTNDV	KQLTEVVQKI	ATESIVIWG.	KTPKFKLPIR	KETWEVWWTE
A_BY_97BL0	KXXSAHTNXV	KQLTAVVQKV	ATESXILXG.	KTPKFRLPIQ	XETXEXWXMX
A_KE_Q23_A	RKRSAHTNDV	RQLAEVVQKV	VMESIVIWG.	KTPKFRLPIQ	KETWDTWWMD
A_SE_SE659	RKRSVHTNDV	KQLAEMVQKV	VTESIVIWG.		KETWETWWMD
A_SE_SE725	RKRSAHTNDV	RQLAEVVQKV	VMESIVIWG.		KETWETWWMD
A_SE_SE753	RKRSAHTNDV	KQLAEVVQKV	AMESIVIWG.	KTPRSKLPIQ	
A_SE_SE853	RKRSAHTNDV	KQLAEVVQKV	VMESIVIWG.	KTPKFKVPIQ	KETWETWWME
A_SE_SE889	RKRSAHTNDV	RQLVEVVQKV	VMESIVIWG.	KTPKFKLPIQ	KETWETWWMD
A_SE_UGSE8	RKKSAHTNDV	RQLAEVVQKV	VMESIVIWG.	KTPKFKLPIQ	
A_UG_92UG0	RKRSAHTNDV	KQLAEVVQKV	VMESIVIWG.	KTPKFKLPIQ	
A_UG_U455_	RKRSAHTNDV	KQLTEVVQKV	STESIVIWG.	KIPKFRLPIQ	
AC_IN_2130	KMRTAHTNDV	KQLTETVQKI	AMESIVIWG.	KTPKFRLPIQ	KETWETWWTD
AC_RW_92RW	KRRTAHTNDV	KQLTEAVQKI	AMESIVIWG.	KTPKFRLPIQ	KETWETWWTD
AC_SE_SE94	KKRSAHTNDV	RQLAEVVQKV	VMESIIIWG.	KTPKFKLPIQ	KETWETWWMD
ACD_SE_SE8	KKRSAHTNDV	KQLAEVVQKV	VMESIVIWG.	KAPKFKLPIQ	KETWETWWMD
ACG_BE_VI1	KRSAAHTNDV	KQLTEAVQKI	AOESIVIWG.	KTPKFRLPIQ	
AD_SE_SE69	KVRGTHTNDI	KQLTAAVQKI	AOECIVIWG.	KTPKFRLPIQ	
AD_SE_SE71	KLRGTHTNDI	KQLTAAVQKI	AQECIVIWG.	KTPKFRLPIQ	
ADHK_NO_97	RMKSAHTNDV	KQLTEAVQKI	SIESIVIWG.	KTPKFRLPIQ	
ADK_CD_MAL	RIKSAHTNDV	KQLTEAVQKI	AOESIVIWG.	KTPKFRLPIQ	
AG_BE_VI11	KRKSAHTNDV	KQLVEVVQKV	ATESVVIWG	KTPKFRLPIQ	KEIMEAMMIE
AG_NG_92NG	KRGSAHTNDV	KQLTEAVQKI	ATESTVIWG	KVPKFKLPIR	
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AGU_CD_Z32	RRRTAHTNDV	RQLAEVVOKI	ASESIVIWG.	KTPKFRLPIQ	KELMELMMID
AJ_BW_BW21	KRRAAHTNDV	KOLAEVVOKT	ALESIVIWG.	KTPKFRLPIQ	
B_AU_VH_AF	RMKGAHTNDV	KOLTEAVOKT	ATESIVIWG.	KTPKFKLPIQ	
B CN RL42	RMRGAHTNDV	KOLTEAVOKT	ATESIVIWG.	KTPKFKLPIQ	KEIWEAWWME
B_DE_D31 U	RMRGAHTNDV	KOLTEAVOKT	TTESTVING.	KTPKFKLPIQ	VEIMEWMMIE
B DE HAN U	RMRGAHTNDI	KOLTEAVOKT	ATEGIVING.	KTPKFRLPIQ	KETWEAWWTE
B FR HXB2	RMRGAHTNDV	KOLTEAVOKT	TTESTVING.	KTPKFKLPIQ	KETWEAWWIE
B_GA_OYI	RMRGAHTNDV	KOLTEAVOKT	TOESTVING.	KTPKFKLPIQ	KETWETWWTE
B GB CAM1	KMRGTHTNDV	KOLTEAVOKT	ATESTVING.	KTPKFKLPIQ	KETWEAWWTE
B_GB_GB8_A	KMRGAHTNDV	KOLTEAVOKT	ATESTVING.	KTPKFKLPIQ	KETWDAWWID
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B_KR_WK_AF	RMRGAHTNDV	KOLTEAVOKV	AIESIVIWG.	KILKEKTETŐ	KETWDAWWTE
B NL 3202A	RMRGAHTNIDV	KQLTEAVQKI		-	KETWEAWWTE
B_TW_TWCYS	RTRGAHTNOV	KOLTEAVOKT	AMEGIVING.	KTPKFKLPIQ	KETWEAWWTE
B_US_BC_LO	RTRGAHTMOV	KOLTERVOKI	MUEGITTEG.	KTPKFKLPIQ	KETWEAWWTE
B US DH123	RABGAHAMDA	KOLTENTOVI	TIECTITMG.	KTPKFRLPIQ	KETWETWWTE
B_US_JRCSF	עזיניטאווןעטע	VÕPTEAAÕVA	TTECIVING:	KTPKFRLPIQ	KETWETWWTE
B US MNCG	DMDCAUTINDV	KQLTEAVQKI	ANESIVIWG.	KIPKFKLPIQ	
B_US_P896_	DWDGynumina	KOLTEAVOKI	ATESIVIWG.	KTPKFRLPIQ	KETWETWWTE
B_US_RF_M1	TAMONT INDV	VOLUEAVOKI	ATESIVIWG.	KTPKFKLPIQ	KETWEAWWTD
	MUCATINDV	VÕLTEVOKA	ATESIVIWG.	KTPKFKLPIQ	KETWEAWWTE
B_US_SF2_K	RMRGAHTNDV	KQLTEAVQKV	STESIVIWG.	KIPKFKLPIO	KETWEAWWME
B_US_WEAU1	KAKGAHINDA	KQLTEAVQKI	TTESIVIWG.	KTPKFKLPIO	KETWETWWTE
B_US_WR27_	RTRGAHTNDV	XQLXEAVQKX	ATXSIVIWG.	KTPKXILPIO	KETWESDWTE
B_US_YU2_M	KTKGAHTNDV	KQLTEAVQKI	ATESIVIWG.	KTPKFKLPIQ	KETWETWWTE

BF1_BR_93B	RMRGAHTNDV	KQLTEAVOK	TTESIVIWG.	KIDKEKIDIC	) KETWEAWWIE
C_BR_92BR0	KMKTAHTNDV	RQLTEAVOK	I ALESTITUG	WITH THE DIE	KETWEAWWIE
C_BW_96BW0	KWKTAHTNDV	KQLTEVVOK	TMESTUTWG	KUDKEDI DI	KDTWETWWTD
C_BW_96BW1	KMKTAHTNDV	KQLTEAVOK]	[ SMRSTVTWG	KIDEEDIDI	KEAWEAWWTD
C_BW_96BW1	KTRTAHTNDV	RQLTEAVOK	AOECTUTWG	איים אמשעמייא	KETWEAWWTD
C_BW_96BW1	KMRTAHTNDV	KQLTEAVOK	AMESIVIWG.		VELMEAMMID
C_ET_ETH22	KRGTAHTNDV	KQLTAVVOKI	ALESTVIWG	KUDKEDI DIC	KETWETWWTD
C_IN_93IN1	KRRTAHTNDV	KQLTEAVOKI	AMESIVIWG.		KETWEAWWTD
C_IN_93IN9	KMRTAHTNDV	KQLTEAVOKI	AMESIVIWG.		KETWETWWTD
C_IN_93IN9	KMRTAHTNDV	KQLAEAVOKI	AMESIVIWG.		KETWETWWTD
C_IN_94IN1	KMRTAHTNDV	KQLTEAVOKI	AMESIVIWG.		KETWEAWWTD
$C_{IN_95IN2}$	KMRTAHTNDV	KOLTEAVOKI	ATESIVIWG.	-	KETWETWWTD
CRF01_AE_C	RKRSAHTNDV	RQLAEVVOKV	ATESIVIWG.		KETWETWWTD
CRF01_AE_C	RKRSAHTNDV	RQLAEVVOKV	ATESIVIWG.		RETWETWWAE RETWETWWME
CRF01_AE_C	RQRSAHTNDV	RQLVEVVOKV	STESIVIWG.		RETWETWWME
CRF01_AE_T	RKRSAHTNDV	RQLTEVVOKI	ATESIVIWG.		RETWETWWME RETWETWWME
CRF01_AE_T	RKRSAHTNDV	ROLTEVVOKI	ATESIVIWG.		RETWETWWME
CRF01_AE_T	RKRSAHTNDV	ROLTEVVOKT	ATESIVIWG.		RETWETWWME
CRF01_AE_T	RNRSAHTNDV	ROLTEVVOKT	ATESIVIWG.		RETWETWWME
CRF01_AE_T	RRGSAHTNDV	ROLTEVVOKV	ATESIVIWG.		KETWETWWME
CRF01_AE_T	RKRSAHTNDV	ROLTEVVOKT	ATESIVIWG.		RETWETWWME
CRF02_AG_F	KRRSAHTNDV	KOLAEVVOKV	VTESIVIWG.		KETWETWWME
CRF02_AG_F	KRRSAHTNDV	KOLTEVVOKV	ATESIVING.		RETWEAWWME
CRF02_AG_G	ERVAPYDLSI	TELTEVVOKV	TTESIIIWG.		RETWEAWWME
CRF02_AG_N	KKRSAHTNDV	KOLTEVVOKV	AMESIVIWG.		RETWEAWWME
CRF02 AG S	KKRSAHTNDV	KOLTEVVOKV	ATESIVIWG.	x	RETWETWWME
CRF02_AG_S	KKRSAHTNDV	KOLTEVVOKV	ATESIVVWG.		RETWEAWWME
CRF03_AB_R	RLRGAHTNDV	KOLTEAVOKT	ATESIVIWG.		RETWEAWWME
CRF03_AB_R	RLRSAHTNDV	KOLTEAVOKT	ATESIVIWG.		KETWETWWTE
CRF04_cpx_	RTRSAHTNDV	ROLTEAVOKT	AMECIVING.	VIEWS VIBIO	KETWETWWAE
CRF04_cpx_	KTRSAHTNDV	ROLTEVVOKT	AMECIVIWG.	VIEWERPETÕ	KETWDTWWTE
CRF04_cpx_	KTRSAHTNDV	ROLTEAVOKT	AMECIVIWG.		KETWDTWWTE
CRF05_DF_B	RARGVHTNDV	KOLAEAVOKT	ATESTUTUC		KETWDTWWME
CRF05_DF_B	RTRNAHTNDV	KOLAEAVOKT	ATESTVING.	VIEWERTHIO	KETWEIWWTE
CRF06_cpx_	RIKSAHTNDV	KOLTEAVOKT	ALESTYTUG.	VIEVEKTETŐ	KETWETWWTE
CRF06_cpx_	KIKSTHTNDV	KOLTEAVOKT	ARESIVIWG.	VIEWEKTETŐ	KETWETWWTE
CRF06_cpx_	RMRSAHTNDI	KOLTEAVOKT	ALEAIVIWG.	KTPKFRLPIQ	KETWETWWTE
CRF06_cpx_	RTKSAHTNDV	ROLTEAVOKT	ALESTUTES		KETWETWWTE
CRF11_cpx_	KRRAAHTNDV	ROLTEVIORT	CLEATUING.	KTPKFRLPIH KTPKFRLPIQ	KETWETWWTE
CRF11_cpx_	KRRTAHTNDV	ROLAEVVOKT	ALEGIVING.	KIPKFRLPIQ	RETWETWWTD
D_CD_84ZR0	RMRGAHTNDV	KOLTEAVOKT	ATESTUTEG.	KTPKFRLPIQ	KETWETWWTD
D_CD_ELI_K	RMRGAHTNDV	KOLAEAVORT	STESTVING.	RTPKFRLPIQ	KETWETWWID
D_CD_NDK_M	RTRGAHTNDV	KOLTEAVOKT	ATESTUTES.	KTPKFKLPIQ	KETWETWWAE
D_UG_94UG1	KMRGTHTNDV	KOLTEAVOKI	AOECTVING.	KTPKFRLPIQ	KETWETWWIE
F1_BE_VI85	KVRSAHTNDV	KOLTEAVOKT	ALESTUTWOK	RSPKFKLPIL	KETWETWWTE
F1_BR_93BR	KMRSAHTNDV	KOLTEAVOKI	SLESTVING	KTPKFRLPIL	KETWDTWWTD
F1_FI_FIN9	KMRSAHTNDV	KOLTEAVOKT	ALESTVING.	KTPKFKLPIL	KETWDTWWTE
F1_FR_MP41	KTRSAHTNDI	KELTDAVOKV	ARECTVING.	KSPKFRLPIQ	KETWDTWWTE
F2_CM_MP25	RRKSAHTNDV	KOLTEVVOKV	ATEGIVING.	KVPKFRLPIQ	KETWEAWWTD
F2KU_BE_VI	RMRSAHTNDV	KOLTEAVOKT	ATEGIVING.	KTPKFRLPIQ	KETWEIWWTE
G_BE_DRCBL	KGGSAHTNDV	KOLTEVVOKT	ATEGIVING.	KIDKEKIDIO	KETWETWWTE
G_NG_92NG0	KRGSAHTNDV	KOLTEVVOKT	ATEGIZING.	KIPKFKLPIK KIPKFKLPIR	KETWEVWWTE
G_SE_SE616	KRGSAHTNDV	KOLTEVVOKT	ATECTVING.	VIEWEVTETK	KETWEVWWTE
H_BE_VI991	KMRSAHTNDV	KOLTEVVOKT	ATESTUTES.		KETWEIWWTD
H_BE_VI997	KMRNAHTSDV	KOLTEAVORT	ATESTUTES		KETWETWWTE
H_CF_90CF0	KMRTAHTNDI	KOLTEAVORT	STECTUTES.		KETWETWWTE
J_SE_SE702	KRRSAHTNDV	KOLSOVVOKT	ATENTUTUR.	KIPKFRLPIQ	KETWETWWTE
J_SE_SE788	KRRSAHTNDV	KOLAEVVOKT		KTPKFRLPIQ	KETWETWWTD
K_CD_EQTB1	RIRSAHTNOV	KOLTEMMOKY			RETWETWWTD
K_CM_MP535	RMRSAHTNDV	KOLTRAVORT		KTPKFRLPIQ	KETWGTWWTE
N_CM_YBF30	KMRSAHTNDI	KOI'AKAMDRA		KTPKFRLPIQ	KETWETWWTE
		=~ • ~ V.I.V	TTDDIVING.	KTPKFRLPVQ	KEVWEAWWTD

O CM ANTOGO	DOMA GUIDANTO Z				
O_CM_ANT70 O CM MVP51	ROKACHIMDI	RQLAEVIQKV	SQESIIIWG.		RETWETWWAD
	ROKASHINDI	RQLAEVVQKV			RETWETWWAE
O_SN_99SE_	ROKASHINDI	RQLAEVLQRV	SQEAIIIWG.		RETWETWWAD
O_SN_99SE_	KQKASHTNDI	RQLAEVLQKV			RETWETWWAD
U_CD83C	KRRSAHTNDV	KQLTEAVQKI	SMESIVIWG.	KIPKFKLPIQ	KETWESWWTD
	<b></b>				
0.00000000 #	601				650
00BW0762_1	YWQATWIPEW	EFVNTPPLVK	LWYQLEKDPL	VGVETFYVDG	AANRDTKIGK
00BW0768_2	AMOVIMIDEM	EFVNTPPLVK	LWYQLEKEPI	LGAETFYVDG	AANRETKKCK
00BW0874_2	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI	AGAETFYVDG	AANRETKLGK
00BW1471_2	AMOVI. I LEM	EFVNAPPLVK	LWYQLEKDPI	AGAETFYVDG	AANRETKLGK
00BW1616_2	YWQATWIPEW		LWYQLEKEPI	IGIETFYVDG	AANRETKLGK
00BW1686_8	YWQATWIPEW	EFVNTPPLVK	<b>LWYQLEKEPI</b>	VGAETFYVDG	AANRETKAGK
00BW1759_3	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI	AGAETFYVDG	AANRDTKKGK
00BW1773_2	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI	AGVETFYVDG	AANRETKIGK
00BW1783_5	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI	VGAETYYVDG	AANRETKMGR
00BW1795_6	YWQATWIPEW		LWYQLEKEPV	AGVETFYVDG	AANRETKMGK
00BW1811_3	YWQATWIPEW	EFVNTPPLVK	<b>LWYQLEEEPI</b>	AGAETFYVDG	AANRETKIGK
00BW1859_5	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI	VGAETFYVDG	AAHRETKVEK
00BW1880_2	YWQATWIPEW		LWYQLEKEPM	MGVETFYVDG	AANRETKICK
00BW1921_1	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI	VGAETFYVDG	AANRETKLGK
00BW2036_1	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI	IGAETFYVDG	AANRETKLGK
00BW2063_6	YWQATWIPEW	EFVNTPPLVK	LWYQLEKDPI		AANRETKMGK
00BW2087_2	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI		AANRETKIGK
00BW2127_2	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI		AVNRETKVGK
00BW2128_3	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI	VGAETFYVDG	AANRETKKGK
00BW2276_7	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPİ	AGAETFYVDG	AANRETKIGK
00BW3819_3	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI		AANRDTKVGK
00BW3842_8	YWQATWIPDW	EFVNTLPLVK	LWYQLEKEPI	IGAETFYVDG	AANRDTKIGK
00BW3871_3	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI	VGAETFYVDG	AANRETKAGK
00BW3876_9	YWQATWIPDW	EFVNTPPLVK	LWYQLEKEPI	VRAETFYVDG	AANRETKIGK
00BW3886_8	YWQATWIPEW	EFVNTPPLVK	LRYQLEKEPI	AGVETFYVDG	AANRETKVGK
00BW3891_6	YWQATWIPEW	EFVNTPPLVK	LWYQLEKDPI	AEVETFYVDG	AANRETKRCK
00BW3970_2	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPM	AGVETFYVDG	AANRETKICE
00BW5031_1	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPV	AGVETFYVDG	AANRETKIGK
96BW01B21	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI	VGAETFYVDG	AAMRETKTOK
96BW0407	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI	AGAETFYVDG	AANDETKLCK
96BW0502	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI	PGVETFYVDG	AANDETKLCK
96BW06_J4	YWQATWIPEW	EFVNTPPLVK	LWYOLEKEPI	MGAETEYVDG	ΔΑΝΌΕΨΤΕΛΙΚΑ
96BW11_06	Y.QATWIPEW	EFVNTPPLVK	LWYQLETEPM	AGAETFYVDG	AANDETKTCK
96BW1210	XMOVI.MT DEM	EFVNTPPLVK	LWYOLEKEPI	AGVETEYVDG	ΔΑΝΡΕΨΚΜΟΚ
96BW15B03	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI	IGAETFYVDG	AANRETKICK
96BW16_26	YWQATWIPKW	EFVNTPPLVK	LWYQLEKEPI	VGAETFYVDG	AANDETKLCK
96BW17A09	AMOVI.MIDEM	EFVNTPPLVK	LWYQLEKDPI	AGAETFYVDG	AANRETKLCK
96BWMO1_5	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI	LGAETFYVDG	ΔΔΝΡΕΨΚΜακ
96BWMO3_2	XMOVI.MT DEM	EFVNTPPLVK	LWYQLEKGPI	AGAETFYVDG	ASNRETKLCK
98BWMC12_2	AMOVIMILEM	EFVNTPPLVK	LWYQLEKEPI	AGAETLYVDG	AAMRETELCE
98BWMC13_4	AMÖVLMIÞEM	EFVNTPPLVK	LWYQLEKEPI	LGVETFYVDG	AANDETKT.CK
98BWMC14_a	AMOULMIDEM	EFVNTPPLVK	LWYOLEKEPI	IGVETFYVDG	ΔΑΝΤΡΕΨΕΚΛΩΕ
ASBMMOT4TT	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI	PGAETFYVDG	ΔΔΝΡΕΨΚΨΩΚ
ASBMMOTS G	XMOW.LMT DEM	EFVNTPPLVK	LWYOLEKEPI	GGAETFYVDG	ΔΔΝΤΡΕΤΡΙΚΜΩΚ
98BWMO36_a	YWQATWIPEW	EFVNTPPLVK	<b>LWYQLEKEPI</b>	AGAETEYVDG	yy edearkar
98BWM037_d	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI	AGVETEYVDG	AAGDDTKTCK
99BW3932_1	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI	GGVETFYVDG	AAMPETKVCK
99BW4642_4	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI	VGAETEVING	ΣΣΜΕΨΥΚΩΥ 
99BW4745_8	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI	AGVETEVADO	VANDEARDON THE TOTAL
	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI	VGVETEVIDO	VANDOURT OR
	YWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI	VGAETEVING	V VID ELLERGIA TUTOL
	WWQATWIPEW	EFVNTPPLVK	LWYQLETEPI	AGAETEVING	ANDERNT OF
		EFVNTPPLVK	TMAOTEKE bi	AGAETEVING	VANDELLET UN SUNTET VPGV
A2D97KR	YWQATWIPEW	EFVNTPPLVK	LWYQLETEPI	TGAETEVING	YNDEWAT OR STATE TYPGY
<del></del>		= = =			STANT STANT

A2G CD 97C	VMONTH TOOM				
A BY 97BL0	INCHINTEDM	ELANIEDE	LWYRLETEPI	PGAETYYVEG	AANRETKLGK
	AWQAIAIPE.	REANTABLAK	TMAÖFEKEbi	VRAETFYVDR	AANRETKIGK
A_KE_Q23_A A SE SE659	TMÄWTMTDEM	PLANIFIER	IMYOUEKDDE	שמאבימים אמ	A A ATTO TIMETER CORE
A_SE_SE659 A_SE_SE725	IMOVILLIBRA	ELANIABITAL	MMATTEEDbi	VGADSFFVEG	AAKEKTLXGT
	TWOWINTERM	PLANILLDPTAK	LWYOLEKDPT	$\Delta G \Delta E T E V T T C$	A VIDEMINT ON
A_SE_SE753	IMONIATER	REANTABLIAK	LWYOLEKDPI	VGAETEVVIDG	א אום ביייעד מוצ
A_SE_SE853	TMÖYTMTEPM	PLANITABLIAK	PMAOPEKDAL	AGARTRVING	אום בשוושו מוצג מ
A_SE_SE889	IMOVIMIEM	REANLEDFAK	LWYOLEKDPI	VGAETEVING	ለ እ እነው ውጥሆተ ረታራ
A_SE_UGSE8	IMOVIMINEM	FLANLLDDPAK	LWYOLEKDPI	AGVETEVIDA	א אום ביחיצו מצ
A_UG_92UG0	IWQAT.IPEW	FEANLLBETAK	LWYOLEKDPT	AGAETEVING	A A NID EMECT CITE
A_UG_U455_	IMOWIMIDEM	REANTABLOK	LWYOLEKDPI	AGAETEYVDG	Δ Δ ΝΙΌ ΕΠΈΥΙ ΛΈΥ
AC_IN_2130	IMCAIMIPEM	REANTABLIAK	LWYOLEKEPM	AGAETEVING	λλησυπυταν
AC_RW_92RW	IMOVIMILEM	EFVNTPPLVK	LWYOLEKEPI	LGAETEVANG	ΔΛΜΟΕΦΥΤΟΥ
AC_SE_SE94	IMOWIMIPEM	REANTEDPAK	LWYOLEKDPT	TGARTRYMA	א אוווים מוצד מוצ
ACD_SE_SE8	IMONIMINEM	ELANLLDDPAK	LWYOLEKDPI	TGAETEVVDG	$\Delta \Delta MD$ EVENT OF
ACG_BE_VI1	TMÖWTMTBEM	ELANJAPPAK	LWYOLEKDPT	VGAETEVING	A A CDEMET OF
AD_SE_SE69	IMONIMIPEM	FLANLLDDPAK	LWYQLEKDPM	VGAETFYVDG	Δ Δ ΝΤΟ ΕΥΤΈΧΥ . C. ΕΥ
AD_SE_SE71	IMOVIMINE	FEVNTPPLVK	LWYOLEKDPI	AGVETEVVDG	א אאדטבייזיעד מע
ADHK_NO_97	IMOVIMIBEM	EFVNTPPLVK	LWYOLETEPT	VCAETEVING	<b>λ λ ΧΙΟ Ε</b> ΙΦΕΡΕΛΙΚ
ADK_CD_MAL	IMONIMIPEM	ELANIBLEAK	LWYOLETEPI	VGAETEVVDG	$\lambda \lambda MD Empty Cy$
AG_BE_VI11	IMONIMINEM	FEVNTPPLVK	LWYOLEKDPI	AGAETEVING	λλησεντική συ
AG_NG_92NG	YWQATWIPDW	EFVNTPPLVK	LWYRLETEPT	PGAETVVVDG	AANKETKLGK
AGHU_GA_VI	HMÖVIMIDEM	EFVNTPHLVK	LWYOLETEPT	VGAETEVIDG	λληρεπνοαν
AGU_CD_Z32	YWQATWIPEW	EFVNTPLLVK	LWYOLEKEPT	TGAETEVING	AANRETKOGK
AJ_BW_BW21	YWQATWIPEW	EFVNTPPLVK	TMAOPEKED1	VCVETETADG	ASNRETKLGK
B AU VH AF	YWQATWIPEW	EFVNTPPLVK	I-MAOL'EKEDI	AGVETTIANG	AANRETKLGK
B CN RL42	YWQATWIPEW	EFINTSPLVK	LWYOLEKEDI	PEVENEARO	AANRETKLGK
B DE D31 U	YWQATWIPEW	EFVNTPPLVK	LWYOLETEDT	ACVEDENTIANO	AANRETKLGK AANRETKLGK
B DE HAN U	YWQATWIPEW	EFVNTPPLVK	I'MAUI'EKEDI	AGWETTIANG	AANRETKLGK AANRETKLGK
B_FR_HXB2_	YWOATWIPEW	EFVNTPPT.VK	LWVOLEKERT	VGAETFYVDG	AANRETKLGK AANRETKLGK
B GA OYI	YWOATWIPEW	EFVNTPPI.VK	TWYOLEVERT	VGAETFYVDG	AANRETKLGK AANRETKLGK
B GB CAM1	YWOATWIPEW	EFVNTDDT.VK	TWIGHERDET	VGAETFYVDG	AANRETKLGK AANRETRLGK
B GB GB8 A	YWOATWIPEW	EFWITTETTYK	TWIOTEKEET	VGAETFYVDG	AANRETRLGK AANRETKLGK
B GB MANC	YWOATWIPEW	EEAMADDI'MK	TMACLEMENT	IGAETFYVDG	AANRETKLGK AANRETKLGK
B KR WK AF	YWOATWIPEW	EEAWADDIAA	TMIOTEKEDI	VGAETFYVDG	AANRETKLGK
B NL 3202A	YWOATWIDEW	EE/WILLDIVA	TMACTERED	VGAETFYVDG	AANRETKLGK
B TW TWCYS	YWOATWIDEW	EFVNTPPLVK	TMIOTEKEDT	VGAETFYVDG	AANRETKLGK
B_US BC LO	YWOATWIDEW	EFVNTPPLVK	TMIOTEKEDI	IGAETFYVDG	AANRETKLGK
B US DH123	VWODTWIDEW	EFVNTPPLVK	TMAGPEKELT	EGAETFYVDG	AANRETKLGK
B US JRCSF	AMUVAMATERM	EFVNTPPLVK	TMAGPEKE51	VGAETFYVDG	AASRETRLGK
B US MNCG	VT ATWITEW	EFVNTPPLVK	TMAGPEKEDI	VGAETFYVDG	AANRETKLGK
B US P896	VWODTWIFEW	EVVNTPPLVK	TMAGTEREDI	VGAETFYVDG	AANRETKKGK
B_US_RF_M1	VWOATWIFEW	EFVNTPPLVK	TMAGPEKEBI	VGAETFYVDG	AANRDTKSGK
B US SF2 K	VWONTWIFEW	EL ANTENTAL	PMAGPEKEBI	IGAETFYVDG	AANRETKLGK
B_US_WEAU1	TWÖVIMILDEM	PLANIEDER	TWAOPEKE DI	VGAETFYVDG	AANRETKLGK
B_US_WR27	INCATATION	ELANIALDETAK	PMAOPEKEDI	VGAETFYVDG	AANKETKLGK
	TWOAUMITDEM	EXVNTPPLVK	LWYQLEKEPI	VGAETFYVDG	AASRETKLGK
B_US_YU2_M BF1_BR 93B	IMONIMITEM	EFVNTPPLVK	LWYQLEKEPI	IGAETFYVDG	AANRETKLGK
	IWQATWIPEW	EFVNTPPLVK	LWYQLEKEPI	VGAETFYVDG	AANRETKLGK
C_BR_92BR0	IMOAT. I DEM	FEAULDBLAK	LWYOLEKEPI	AGAETEVVDG	ΔΑΝΟΕΤΡΜΟΡ
C_BW_96BW0	IMOVIMILEM	FLANLDSPAK	LWYOLEKEPI	AGAETEVING	A A MD ETTEL CIE
C_BW_96BW1	IMOVIMILEM	FLANISHPAK	LWYOLETEPM	AGAETEVANG	λλΝοφηνταν
C_BW_96BW1	IMONIMIEM	FRANLLABTAK	LWYOLEKEPI	AGVETEVIDG	$\Delta \Delta MD T T T T T T T T T T T T T T T T T T $
C_BW_96BW1	IMONIMIDEM	REVNTPPLVK	LWYOLEKEPI	IGAETEVVDG	ΔΑΝΟΕΨΕΤΟΕ
C_ET_ETH22	IMONIMIPEM	FEANLLBELAK	LWYOLEKEPI	AGVETEVIDG	ΛΑΝΟΦΦΥΚΤΟΚ
C_IN_93IN1	IMOVIMILEM	REANTABLAK	LWYOLEKDPI	AGVETEVING	Δ ΔΝΌ ΕΨΈΤ.ΟΥ
C_IN_93IN9	INGWINTERM	PLANTABLIA	PMAOPEKDDI	AGVETEVING	ΔΑΝΟΕΨΚΥΟΚ
C_IN_93IN9	IMONIMIDEM	EFVNTPPLVK	LWYRLEKEPI	AGVETEYVING	ΔΑΜΡΕΨΚΤΩΚ
C_IN_94IN1	IMONIMIPEM	EFVNTPPLVK	LWYOLEKDPI	AGAETEVVDG	ΔΑΝΌΓΡΥΚΤΟΚ
C_IN_95IN2	IMONIMILEM	REANTABLTAK	LWYQLEKEPI	AGAETFYVDG	ΔΑΝΡΕΤΚΤΩΚ
CRF01_AE_C	IWQATWIPEW	EFVNTPPLVK	LWYQLEKDPI	AGAETLYVDG	AASPENKT.CK
CRF01_AE_C	YWQATWIPEW	EFVNTPPLVK	LWYOLEKDET	MGAETEVING	yy CDEMKOOR KENKUK
		- = - 31			www.runger

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CRF01_AE_C YWQATWIPEW EFVNTPPLVK LWYQLEKDPI AGAETFYVDG AASRETKLGK
   CRF01_AE_T YWQATWIPEW EFVNTPPLVK LWYQLEKDPI VGAETFYVDG AASRETKLGK
   CRF01_AE_T YWQATWIPEW EFVNTPPLVK LWYQLEKDPI VGAETFYVDG AASRETKLGK
   CRF01_AE_T YWQATWIPEW EFVNTPPLVK LWYQLEKDPI VGAETFYVDG AASRETKLGK
   CRF01_AE_T YWQATWIPEW EFVNTPPLVK LWYQLEKEPI IGAETFYVDG AASRETKLGK
   CRF01_AE_T YWQATWIPEW EFVNTPPLVK LWYQLEKDPI VGAETFYVDG AASRETKLGK
   CRF01_AE_T YWQATWIPEW EFVNTPPLVK LWYQLEKDPI VGAETFYVDG AASRETKLGK
   CRF02_AG_F YWQATWIPDW EFVNTPPLVK LWYQLEKDPI VGAETFYVDG AANRETKLGK
   CRF02_AG_F YWQATWIPDW EFVNTPPLVK LWYQLEKDPI VGABTFYVDG AANKETKLGK
   CRF02_AG_G YWQATWIPEW EFVNTLPLVK LWYQLEKDPI VGAETFYVDG AANRETKLGK
   CRF02_AG_N YWQATWIPEW EFVNTPPLVK LWYQLEKDPI VGAETFYVDG AANRETKIGK
   CRF02_AG_S YWQATWIPEW EFVNTPPLVK LWYQLEKDPI VGAETFYVDG AANRETKIGK
   CRF02_AG_S YWQATWIPEW EFVNTPPLVK LWYQLEKDPI IGAETFYVDG AANRETKLGR
   CRF03_AB_R YWQATWIPEW EFVNTPPLVK LWYQLEKEPI VGAETFYVDG AANRETKSGK
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   CRF05_DF_B YWQATWIPEW EFVNTPPLVK LWYQLEKEPI MGAETFYVDG AANRETKLGK
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CRF06_CPX_
CRF06_CPX_
CRF06_CPX_
CRF06_CPX_
CRF06_CPX_
CRF06_CPX_
CRF06_CPX_
CRF06_CPX_
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J_CM_MP535

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00BW1915_5 00BW1819_5 00BW1819_5 00BW1819_5 00BW1819_5 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 00BW1819_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1 10BW1911_1	_	AGIVIDRGKO	KVTSLTETIN	OKTELOATOL	ALQUSGSEVN	IVIDSQYALG
OOBM1811_3		AGIVIDAGAQ	KATSTIETIN	ONTEROMINE	ALQUSGSEVN	
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OBM2036_1	_					<b>-</b>
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OBM2127	_					
OBM2127   2	<del></del>					
00BM2128_3         AGYVTDKGRQ KVVSLITETIN CKTELQAIQL ALQDSGSEVN IVTDSQYALG           00BW3819_3         AGYVTDRGRQ KIVSLIGTIN CKTELQAIQL ALQDSGSEVN IVTDSQYALG           00BW3819_3         AGYVTDRGRQ KIVSLITETIN CKTELQAIQL ALQDSGSEVN IVTDSQYALG           00BW3817_3         AGYVTDRGRQ KVISLITETIN CKTELQAIQL ALQDSGSEVN IVTDSQYALG           00BW3816_5         AGYVTDRGRQ KVISLITETIN CKTELQAIQL ALQDSGSEVN IVTDSQYALG           00BW3816_6         AGYVTDRGRQ KVISLITETIN CKASLQAIQL ALQDSGSEVN IVTDSQYALG           00BW3811_1         AGYVTDRGRQ KVISLITETIN CKASLQAIQL ALQDSGSEVN IVTDSQYALG           00BW3811_1         AGYVTDRGRQ KIVSLITETIN CKTELQAIQL ALQDSGSEVN IVTDSQYALG           96BW01821         AGYVTDRGRQ KIVSLITETIN CKTELQAIQL ALQDSGSEVN IVTDSQYALG           96BW016_2         AGYVTDRGRQ KIVSLITETIN CKASLQAIQL ALQDSGSEVN IVTDSQYALG           96BW10_1         AGYVTDRGRQ KIVSLITETIN CKTELQAIQL ALQDSGSEVN IVTDSQYALG           96BW10_2         AGYVTDRGRQ KIVSLITETIN CKTELQAIQL ALQDSGSEVN IVTDSQYALG           96BW10_3         AGYVTDRGRQ KIVSLITETIN CKTELQAIQL ALQDSGSEVN IVTDSQYALG           96BW10_1         AGYVTDRGRQ KIVSLITETIN CKTELQAIQL ALQDSGSEVN IVTDSQYALG           96BW10_2         AGYVTDRGRQ KIVSLITETIN CKTELQAIQL ALQDSGSEVN IVTDSQYALG           96BW10_3         AGYVTDRGRQ KIVSLITETIN CKTELQAIQL ALQDSGSEVN IVTDSQYALG           96BW10_1         AGYVTDRGRQ KVVSLITETIN CKTELQAIQL ALQDSGSEVN IVTDSQYALG	_					_
00BW3276_7         AGYVITORGRQ KIVSLISETIN KYELQAIQL ALQDSGSEVN IVIDSQYALG           00BW3842_8         AGYVITORGRQ KVUSLITETIN KYELQAIQL ALQDSGSEVN IVIDSQYALG           00BW3867_9         AGYVITORGRQ KVUSLITETIN KYELQAIQL ALQDSGSEVN IVIDSQYALG           00BW3876_9         AGYVITORGRQ KVUSLITETIN KYELQAIQL ALQDSGSEVN IVIDSQYALG           00BW3891_6         AGYVITORGRQ KVUSLITETIN KYELQAIQL ALQDSGSEVN IVIDSQYALG           00BW3891_0         AGYVITORGRQ KIVSLITETIN KYELQAIQL ALQDSGSEVN IVIDSQYALG           96BW012_1         AGYVITORGRQ KIVSLITETIN KYELQAIQL ALQDSGSEVN IVIDSQYALG           96BW012_1         AGYVITORGRQ KIVSLITETIN KYELQAIQL ALQDSGSEVN IVIDSQYALG           96BW06_14         AGYVITORGRQ KIVSLITETIN KYELQAIQL ALQDSGSEVN IVIDSQYALG           96BW10_10         AGYVITORGRQ KVUSLITETIN KYELQAIQL ALQDSGSEVN IVIDSQYALG           96BW10_10         AGYVITORGRQ KVUSLITETIN KYELQAIQL ALQDSGSEVN IVIDSQYALG           96BW16_24         AGYVITORGRQ KVUSLITETIN KYELQAIQL ALQDSGSEVN IVIDSQYALG           96BW16_25         AGYVITORGRQ KVUSLITETIN KYELQAIQL ALQDSGSEVN IVIDSQYALG           96BW17A0         AGYVITORGRQ KVUSLITETIN KYELQAIQL ALQDSGSEVN IVIDSQYALG           96BW17A0         AGYVITORGRQ KVUSLITETIN KYELQAIQL ALQDSGSEVN IVIDSQYALG           96BWMC1_2         AGYVITORGRQ KVUSLITETIN KYELQAIQL ALQDSGSEVN IVIDSQYALG           96BWMC1_2         AGYVITORGRQ KVUSLITETIN KYELQAIQL ALQDSGSEVN IVIDSQYALG	-					
00BW3819_3         AGYVTDRGRQ KIVSINGTTN QKTELQAIQL ALQDSGSEVN IVTDSQYALG           00BW3871_3         AGYVTDRGRQ KVUSLTETTN QKTELQAIQL ALQDSGSEVN IVTDSQYALG           00BW3876_9         AGYVTDRGRQ KVUSLTETTN QKSELQAIQL ALQDSGSEVN IVTDSQYALG           00BW3891_6         AGYVTDRGRQ KVUSLTETTN QKSELQAILL ALQDSGSEVN IVTDSQYALG           00BW3970_2         AGYVTDRGRQ KVUSLTETTN QKASLQAIQL ALQDSGSEVN IVTDSQYALG           96BW01B21         AGYVTDRGRQ KIVSLTETTN QKTELQAIQL ALQDSGSEVN IVTDSQYALG           96BW0502         AGYVTDRGRQ KIVSLTETTN QKTELQAIQL ALQDSGSEVN IVTDSQYALG           96BW11_0         AGYVTDRGRQ KIVSLTETTN QKTELQAIQL ALQDSGSEVN IVTDSQYALG           96BW1210         AGYVTDRGRQ KVUSLTETTN QKTELQAIQL ALQDSGSEVN IVTDSQYALG           96BW1210         AGYVTDRGRQ KVUSLTETTN QKASLQAIQL ALQDSGSEVN IVTDSQYALG           96BW1221         AGYVTDRGRQ KVUSLTETTN QKASLQAIQL ALQDSGSEVN IVTDSQYALG           96BW1222         AGYVTDRGRQ KVUSLTETTN QKASLQAIQL ALQDSGSEVN IVTDSQYALG           96BW1232         AGYVTDKGRQ KVUSLTETTN QKTSLQAIQL ALQDSGSEVN IVTDSQYALG           98BWMC14_a         AGYVTDKGRQ KVUSLTETTN QKTSLQAIQL ALQDSGSEVN IVTDSQYALG           98BWMC14_b						·-
00BM3842_8         AGYVTDRGRQ KVUSLTETTN (KTELQAIQL ALQDSGSEVN IVTDSQYALG ODBW3876_9)         AGYVTDRGRQ KVUSLTETTN (KKELQAIQL ALQDSGSEVN IVTDSQYALG ODBW3896_8)         AGYVTDRGRQ KVUSLTETTN (KKELQAIQL ALQDSGSEVN IVTDSQYALG ODBW38970_2)         AGYVTDRGRQ KVUSLTETTN (KKELQAIQL ALQDSGSEVN IVTDSQYALG ODBW39970_2)         AGYVTDRGRQ KVUSLTETTN (KKELQAIQL ALQDSGSEVN IVTDSQYALG ODBW39970_2)         AGYVTDRGRQ KIVSLTETTN (KKELQAIQL ALQDSGSEVN IVTDSQYALG ODBW39970_2)         AGYVTDRGRQ KVVSLTETTN (KKELQAIQL ALQDSGSEVN IVTDSQYALG ODBW3998000_2)         AGYVTDRGRQ KVVSLTETTN (KKELQAIQL A	_	AGYVTDRGRO	KTVSTNGTTN	OKTEDOATOL	WINDSCREAM WINDSCREAM	
OOBM3871_3 AGYVTDRGRQ KVISLTETTN QKSELQAIQL ALQDSGSEVN IVTDSQYALG OOBM3886_8 AGYVTDRGRQ KVISLTETTN QKSELQAIQL ALQDSGSEVN IVTDSQYALG OOBM3891_6 OOBM3891_6 OOBM3891_7 OOBM3891_1 96BW01921 96BW01921 96BW01921 96BW0610 96BW1100 AGYVTDRGRQ KIVSLTETTN QKSELQAIQL ALQDSGSEVN IVTDSQYALG OOBM3991_6 OOBM3991_6 OOBM3991_7 OOBM3991_1 96BW01921 96BW0610 96BW1100 AGYVTDRGRQ KIVSLTETTN QKSELQAIQL ALQDSGSEVN IVTDSQYALG OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 OOBM3991_0 O	_					· <del>-</del>
OOBM3886_9 OOBM3886_8 AGYVTDRGRQ KIVSLITETTN QKAELQAIQL ALQDSGSEVN IVTDSQYALG OOBM3891_6 OOBM3970_2 OOBM5031_1 OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO OFFMONTO	_					-
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99BW4642_4 99BW4745_8 99BW4754_7 99BW4754_7 99BWC16_8 AGYVTDRGRQ KVVSLTETTN QKTELQAIHL ALQDSGSEVN IVTDSQYALG ACCD_97CD AGYVTDRGRQ KIVSLTETTN QKTELAIYL ALQDSGSEVN IVTDSQYALG ACCD_97KR AGYVTDRGRQ KIVSLTETTN QKTELAIYL ALQDSGSEVN IVTDSQYALG ACCD_97KR AGYVTDRGRQ KIVSLTETTN QKTELHAIYL ALQDSGSEVN IVTDSQYALG ACCD_97KR AGYVTDKGRQ KIVSLTETTN QKTELHAIYL ALQDSGSEVN IVTDSQYALG ACCD_97KR AGYVTDKGRQ KIVSLTETTN QKTELHAIYL ALQDSGSEVN IVTDSQYALG ACCD_97C AGYVTDKGKQ KIINLTETTN QKTELHAIYL ALQDSGSEVN IVTDSQYALG ACCD_97C AGYVTDKGKQ KVVSLTETTN QKTELHAIHL VLQDSGSEVN IVTDSQYALG ACCD_97C AGYVTDKGKQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG ACCCD_97C AGYVTDKGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG ACCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	99BW3932_1	AGYVTDKGRQ	KVITINETTN	QKTELQAIYL	ALQDSGSEVN	IVTDSOYALG
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99BW4754_7 99BWMC16_8 AGYVTDRGRQ KVVSLTETTN QKTELQAIHL ALQDSGPEVN IVTDSQYALG A2_CD_97CD AGYVTDRGRQ KIVPLTETTN QKTELHAIYL ALQDSGSEVN IVTDSQYALG A2_CY_94CY AGYVTDKGRQ KIVSLTETTN QKTELHAIYL ALQDSGLEVN IVTDSQYALG A2G_CD_97C AGYVTDKGRQ KIVSLTDTTN QKTELHAIYL ALQDSGLEVN IVTDSQYALG A2G_CD_97C AGYVTDKGRQ KIVSLTDTTN QKTELHAIYL ALQDSGSEVN IVTDSQYALG A_BY_97BL0 AGYVTDKGRQ KVVSLTETTN QKTELHAIHL VLQDSGSEVN IVTDSQYALG A_KE_Q23_A AGYVTDKGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_SE_SE659 GWFVAEGGRQ VVVPLAKTTH QTTELPALHP SLQDSGSEVN IVTDSQYALG A_SE_SE753 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_SE_SE853 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_SE_SE853 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_SE_SE889 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_SE_UGSE8 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_SE_UGSE8 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_UG_92UG0 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_UG_92UG0 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_UG_92RW AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG AC_IN_2130 AGYATDRGRQ KIVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG AC_RW_92RW AGYVTDRGRQ KIVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG	99BW4745_8	AGYVTDRGRQ	KIVSLTETTN	QKAELQAIQL	ALQDSGSEVN	IVTDSQYALG
AGYVTDRGRQ KVVTLTETTN QKTELQAIQL ALQDSESEVN IVTDSQYALG A2_CY_94CY AGYVTDRGRQ KIVSLTETTN QKTELHAIYL ALQDSGSEVN IVTDSQYALG A2_CY_94CY AGYVTDRGRQ KIVSLTETTN QKTELHAIYL ALQDSGLEVN IVTDSQYALG A2G_CD_97C AGYVTDKGRQ KIVSLTETTN QKTELHAIYL ALQDSGSEVN IVTDSQYALG A_BY_97BL0 AGYVTDR.RQ KVVPLTETTN QKTELHAIHL VLQDSGSEVN IVTDSQYALG A_KE_Q23_A AGYVTDKGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_SE_SE659 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_SE_SE725 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_SE_SE753 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_SE_SE853 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_SE_SE889 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_SE_UGSE8 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG AC_RW_92RW AGYVTDRGRQ KIVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG AC_RW_92RW AGYVTDRGRQ KIVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG	_	AGYVTDRGRQ	KVVSLTETTN	QKTELQAIHL	ALQDSGPEVN	IVTDSQYALG
A2_CY_94CY A2D97KR A2G_CD_97C A2G_CD_97C A2BY_97BL0 ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYCTCH ACCYCLA ACYCTCH ALQDSGSEVN ACYCTCH ACYCTCH ACCYCLA ACYCTCH ACYCTCH ACYCTCH ACCYCLA ACYCTCH ACYCTCH ACYCTCH ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACYCTCH ACCYCLA ACYCTCH ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACCYCLA		AGYVTDRGRQ	KVVTLTETTN	QKTELQAIQL	ALQDSESEVN	IVTDSQYALG
A2_CY_94CY A2D97KR A2G_CD_97C A2G_CD_97C A2BY_97BL0 ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYVTDKGRQ ACYCTCH ACCYCLA ACYCTCH ALQDSGSEVN ACYCTCH ACYCTCH ACCYCLA ACYCTCH ACYCTCH ACYCTCH ACCYCLA ACYCTCH ACYCTCH ACYCTCH ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACYCTCH ACCYCLA ACYCTCH ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACCYCLA ACYCTCH ACCYCLA		AGYVTDRGRQ	KIVPLTETTN	QKTELHAIYL	ALQDSGSEVN	IVTDSQYALG
A2D97KR A2G_CD_97C A2G_CD_97C A2G_CD_97C A2G_YVTDKGKQ KIINLTETTN QKTELHAIQL ALQDSGSEVN IVTDSQYALG A2G_CD_97C A2G_YVTDKGKQ KIINLTETTN QKTELHAIQL ALQDSGSEVN IVTDSQYALG A2G_YVTDR.RQ KVVPLTETTN QKTELHAIHL VLQDSGSEVN IVTDSQYALG A2G_YVTDKGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2G_SE659 A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2G_SE753 A2GYVTDRGRQ KVVSLTETTN QKTELHAILL ALQDSGSEVN IVTDSQYALG A2G_SE853 A2GYVTDRGRQ KVVSLTETTN QKTELHAILL ALQDSGSEVN IVTDSQYALG A2G_SE889 A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2G_SE889 A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2G_SE889 A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2G_SE889 A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2G_SE889 A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2G_SE889 A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2G_SE889 A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2G_SE889 A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2G_SE889 A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2G_SE889 A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2G_SE889 A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2G_SE889 A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2G_SE889 A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2G_SE889 A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A2GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG	A2_CY_94CY	AGYVTDRGRQ	KIVSLTETTN	QKTELHAIYL	ALQDSGLEVN	IVTDSQYALG
A_BY_97BL0 A_KE_Q23_A AGYVTDR.RQ KVVPLTETTN QKTELHAIHL VLQDSGSEVD IVTDSQYALG A_SE_SE659 A_SE_SE659 A_SE_SE725 A_GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_SE_SE753 A_SYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_SE_SE853 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_SE_SE853 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_SE_SE889 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_SE_UGSE8 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_UG_92UG0 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_UG_U455 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG AC_RW_92RW AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG AC_RW_92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG AC_RW_92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG AC_RW_92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG AC_RW_92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG AC_RW_92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG		AGYVTDKGRQ	KIVSLTDTTN	<b>QKTELHAIYL</b>	ALQDSGLEVN	IVTDSQYALG
A KE Q23 A AGYVTDKGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A SE SE659 GWFVAEGGRQ VVVPLAKTTH QTTELPALHP SLQDSGSEVN IVTDSQYALG A SE SE725 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A SE SE853 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A SE SE853 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A SE UGSE8 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A UG 92UG0 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A UG U455 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG AC IN 2130 AGYATDRGRQ KIVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG AC RW 92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG AC RW 92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG AC RW 92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG AC RW 92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG AC RW 92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG AC RW 92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG AC RW 92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG AC RW 92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG AC RW 92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG AC RW 92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIQL ALQDSGSEVN IVTDSQYALG		AGYVTDKGKQ	KIINLTETTN	QKTELHAIQL	ALQDSGSEVN	IVTDSQYALG
A_SE_SE659 A_SE_SE725 A_GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_SE_SE753 A_SE_SE853 A_SYVTDRGRQ KVVSLTETTN QKTELHAILL ALQDSGSEVN IVTDSQYALG A_SE_SE853 A_SYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_SE_SE889 A_GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_UG_92UG0 A_GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_UG_U455_ A_GYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG AC_IN_2130 AGYATDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG AC_RW_92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG AC_RW_92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG	_	AGYVTDR.RQ	KVVPLTETTN	QKTELHAIHL	VLQDSGSEVD	IVTDSQYALG
A SE SE725 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A SE SE753 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A SE SE853 AGYVTDRGRQ KVVSLTETTN QKTEVHAIHL ALQDSGSEVN IVTDSQYALG A SE SE889 AGYVTDRGRQ KVVSLTETTN QKTELHAIYL ALQDSGSEVN IVTDSQYALG A SE UGSE8 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A UG 92UG0 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG AC IN 2130 AGYATDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG AC RW 92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG AC RW 92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG		AGYVTDKGRQ	KVVSLTETTN	QKTELHAIHL	ALQDSGSEVN	IVTDSQYALG
A_SE_SE753 AGYVTNRGRQ KVVSLTETTN QKTELHAILL ALQDSGSEVN IVTDSQYALG A_SE_SE853 AGYVTDRGRQ KVVSLTETTN QKTEVHAIHL ALQDSGSEVN IVTDSQYALG A_SE_SE889 AGYVTDRGRQ KVVTLAETTN QKTELHAIYL ALQDSGSEVN IVTDSQYALG A_UG_92UG0 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_UG_U455_ AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG AC_IN_2130 AGYATDRGRQ KIVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG AC_RW_92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIQL ALQDSGSEVN IVTDSQYALG		GWFVAEGGRQ	VVVPLAKTTH	QTTELPALHP	SLQDSGSVVI	IVNDSQSAGG
A_SE_SE853 AGYVTDRGRQ KVVSLTETTN QKTEVHAIHL ALQDSGSEVN IVTDSQYALG A_SE_SE889 AGYVTDRGRQ KVVTLAETTN QKTELHAIYL ALQDSGSEVN IVTDSQYALG A_SE_UGSE8 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_UG_92UG0 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG AC_IN_2130 AGYATDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG AC_RW_92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG	_ —	AGYVTDRGRQ	KVVSLTETTN	QKTELHAIHL	ALQDSGSEVN	IVTDSQYALG
A_SE_SE889 AGYVTDRGRQ KVVTLAETTN QKTELHAIYL ALQDSGSEVN IVTDSQYALG A_SE_UGSE8 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_UG_92UG0 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG AC_IN_2130 AGYATDRGRQ KVVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG AC_RW_92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG		AGYVTNRGRQ	KVVSLTETTN	QKTELHAILL	ALQDSGSEVN	IVTDSQYALG
A_SE_UGSE8 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_UG_92UG0 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG AC_IN_2130 AGYATDRGRQ KVVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG AC_RW_92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG		AGYVTDRGRQ	KVVSLTETTN	QKTEVHAIHL	ALQDSGSEVN	IVTDSQYALG
A_UG_92UG0 AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG A_UG_U455_ AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG AC_IN_2130 AGYATDRGRQ KIVTLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG AC_RW_92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIQL ALQDSGSEVN IVTDSQYALG						
A_UG_U455_ AGYVTDRGRQ KVVSLTETTN QKTELHAIHL ALQDSGSEVN IVTDSQYALG AC_IN_2130 AGYATDRGRQ KIVTLTETTN QKTELQAIYL ALQDSGSEVN IVTDSQYALG AC_RW_92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIQL ALQDSGSEVN IVTDSQYALG		AGYVTDRGRQ	KVVSLTETTN	QKTELHAIHL	ALQDSGSEVN	IVTDSQYALG
AC_IN_2130 AGYATDRGRQ KIVTLTETIN QKTELQAIYL ALQDSGSEVN IVTDSQYALG AC_RW_92RW AGYVTDRGRQ KIVSLTETIN QKTELQAIQL ALQDSGSEVN IVTDSQYALG		AGYVTDRGRQ	KVVSLTETTN	QKTELHAIHL	ALQDSGSEVN	IVTDSQYALG
AC_RW_92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIQL ALQDSGSEVN IVTDSQYALG		AGYVTDRGRQ	KVVSLTETTN	QKTELHAIHL	ALQDSGSEVN	IVTDSQYALG
AC_RW_92RW AGYVTDRGRQ KIVSLTETTN QKTELQAIQL ALQDSGSEVN IVTDSQYALG AC_SE_SE94 AGYVTDRGRQ KVVSLTETTN QKTELHAIQL ALQDSGSEVN IVTDSQYALG		AGYATDRGRQ	KIVTLTETTN	QKTELQAIYL	ALQDSGSEVN	IVTDSQYALG
AC_SE_SE94 AGYVTDRGRQ KVVSLTETTN QKTELHAIQL ALQDSGSEVN IVTDSQYALG		AGYVTDRGRQ	KIVSLTETTN	QKTELQAIQL	ALQDSGSEVN	IVTDSQYALG
	AC_SE_SE94	AGYVTDRGRQ	KVVSLTETTN	QKTELHAIQL	ALQDSGSEVN	IVTDSQYALG

ACD_SE_SE8	AGYVTDRGRQ	) KVVSLTETTN	Ι ΟΚΤΕΙ. Η Δ Τ Υ Τ	. AT ODGGGGGG	IVTDSQYALG
ACG_BE_VI1		5 1/43TTTTTTTT	I OKTELHATUT	. AT ODGGGGGG	
AD_SE_SE69	WGIAIDKGKC	Y KAABUTELLE	OKTELUA TUT	AT ODGGGGGG	
AD_SE_SE71	AGYITDRGRO	KVVSLTDTTN	OKTELOATNI	ALODGOSEVN	IVTDSQYALG
ADHK_NO_97	AGYVTDRGRO	KVVFLTETTN	OKTELONTUT	ALODGG PEVN	IVTDSQYALG IVTDSQYALG
ADK_CD_MAL	AGYVTDRGRO	KVVSLTETTN	OKALETOWIET OKTENOWIET	ALQUSGSEVN	IVTDSQYALG IVTDSQYALG
AG BE VI11	AGYVTDRGRO	KAVSI TETTN	OKABINATOR	ALQDSGSEVN	IVTDSQYALG IVTDSQYALG
AG_NG_92NG	AGYVTDRGKO	KIITIOETTN	OKARITATOT OKTETIUMIÕI	ALQUSGSEVN	IVTDSQYALG IVTDSQYALG
AGHU GA VI	AGYVTDRGRO	KTVSLTETTN	ODDELOVERS OKTERNIVION	ALQUSGSEVN	IVTDSQYALG IVTDSQYALG
AGU_CD_Z32	AGYITDKGRO	KVTTI.TETTN	OKARIBATAT	ALQDSGPEVN	IVTDSQYALG IVTDSQYALG
AJ BW BW21	AGYVTDRGRO	KTVSLTETTM	OKALEI IIN TAX	ALQUEGLEVN	IVTDSQYALG
B AU VH AF	AGYVTDRGRO	KWPI.SDTM	OKIETHAT XT	ALQDSGSEVN	IVIDSQYALG
B CN RL42	AGYVTNKGRO	KANAL TROUBLE	OKTRIOATOL	ALQDSGLEVN	IVIDSQYALG
B_DE_D31_U	AGYVTDRGRO	KVVST.TDTIN	OKUEL OF LILE  OKTEPŐYTÁT	ALQDSGUEVN	IVTDSQYALG
B DE HAN U	AGYVTDRGRO	KWASTIDIIM	OKUELOATHU	ALQDSGVEVN	IVSDSQYAIG
B_FR_HXB2	AGYVTNRGRO	K/VALIADITIA	OKARLOYINI	ALQDSGLEVN	IVTDSQYALG
B_GA_OYI_	AGYVTDRGRO	KAMELTOTIM	OKUEL OF EACH	ALQDSGLEVN	IVTDSQYALG
B GB CAM1	AGYVTDRGPO	KANDIADAM	OKTELOATHE	ALQDSGLEVN	IVTDSQYALG
B_GB_GB8_A	AGYVTDRGRO	KAMDI MAMA	OKTELOATYL	ALQDSGLEVN	IVTDSQYALG
B GB MANC	AGYVTDRGRO	KALCI UDUUM	OKTELOAIHL	ALQDSGLEVN	IVTDSQYALG
B_KR_WK AF	AGYVTDPGPO	KANDI MDMMA	OKTELQAIHL	ALQDSGLEVN	IVSDSQYALG
B_NL_3202A	AGYVTDPGPA	KANGLYDDDA	OKTELOAIHL	ALQDSGLEVN	
B_TW_TWCYS	AGYVITOKCEO	KAASTMDIJIM	QKTELQAINL	ALQDSGLEVN	IVTDSQYALG
B_US_BC_LO	AGVVTVKGRO	KANDI UDUMA	OKTELOAIHL	ALQDSGLEVN	IVTDSQYALG
B US DH123	AGVVTVIDGEO	KAAITI MDMAN	OKTELEAIHL	ALQDSGLEVN	IVTDSQYALG
B_US_JRCSF	AGYVITCEGE	KAASPIDILIN	QKTELQAIYL	ALQDSGLEVN	IVTDSQYALG
B US MNCG	AGI VISKGRO	KVVSLTDTTN	QKTELQAIHL	ALQDSGLEVN	IVTDSQYALG
B_US_P896	OLAMANIA LOU	KAASPIDILIM	QKTELQAIHL	ALQDSGLEVN	IVTDSQYALG
B US RF M1	AGIVIDRGRO	KVVSLADTIN	QKTELQAIHL	ALQDSGLEVN	IVTDSQYALG
B_US_SF2_K	AGI VIDRGRQ	KVVSLTDTTN	QKTELQAIHL	ALQDSGLEVN	IVTDSQYALG
B_US_WEAU1	AGI VIDRGRQ	KVVSTADTTN	QKTELQAIHL	ALQDSGLEVN	IVTDSQYALG
B_US_WR27	AGYTTEDECEO	RVVSLTDTTN	QKTELQAIHL	ALQDSGLEVN	IVTDSQYALG
B_US_YU2_M	AGIVIDRGRQ	KVVSLNDTTN	QKTELQAIHL	ALQDSGLEVN	IVTDSQYALG
BF1_BR_93B	AGIVINKGRQ	KVVSLTDTTN	QKTELQAIYL	ALQDSGLEVN	IVTDSQYALG
C_BR_92BR0	AGIVIDRGRQ	KVVPLTDTTN	QKTELQAIHL	ALQDSGLEVN	IVTDSQYALG
C_BW_96BW0	AGIVIDRGRO	KIVSITETTN	QKTELQAIQL	ALQDSGSEVN	IVTDSQYALG
C BW 96BW1	AGIVIDKGRQ	KIVPLTETTN	QRAELQAIQL	ALQDSGSEVN	IVTDSQYALG
C_BW_96BW1	AGIVIDRGRQ	EVVILTETIN	QKAELQAIQL	ALQDSGPEVN	IVTDSQYALG
C_BW_96BW1	AGIVIDRGRO	KIVSLNETTN	QKTELQAIQL	ALQDSGSEVN	IVTDSQYALG
C_ET_ETH22	AGIVIDRGRQ	KIVSLIETIN	QKTELQAIQL	ALQDSGSEVN	TIMECOLERE
C_IN 93IN1	AGI VIDRGRO	KIVSLTETTN	OKTELOATOL.	AT ODGGGGGGG	TTTTT
C_IN_93IN1	MGIAIDKGKO	KIVSLTETTN	ΟΚΨΕΙΩΣΤΟΙ.	AT.ODCCCDTM*	TYTER
	TICK TENCORY	ゲエヘワロエロエエル	OKTELOATOL	ΔΙ.Ουσσσσιατ	TIMECOLES
C_IN_93IN9		V-A-TITULIN	OKTRIOATYL	ΔΙ.Λησασστατ	TITIOGOTTO
C_IN_94IN1		IVT ADDITETIN	OKTELOA ICT.	ΔΤ.Ληςασσιατ	TIMECOLERE
C_IN_95IN2	1101 1 1 1 DIGITA	VT APTITITIES IN	OKTELOATOL	ΔΙ.Ουςοςσπιπι	TIMBOOMER
CRF01_AE_C	TTOTATORORO	VA A PUT IN TAIL IN	OKTELHATHT.	ΔΙ.Ουςασυτατ	TYMEROTATE
CRF01_AE_C	1101 1 1D1(Q1(Q	TA A DITTELLIM	OKTELHATHI	ΔΙ.Ουςαυριπι	TIMEDOCIES
CRF01_AE_C	110111111111111111111111111111111111111	VAADUTELIN	OKTELHATRI.	AT.Phodeptat	TIMEDONIA
CRF01_AE_T	V TD1(O1(Q	MAADHITIM	OKTELHATHT	AT-ODECCETAIT	TIMECOLERA
CRF01_AE_T	TIGITITIONONQ	VA APPTETIM	OKTELHATHI.	ALODGGGGGM	TIMEDONATA
CRF01_AE_T	TIGE VEDICATO	VATOUTELIN	OKTELHATHI.	$\Delta T$ .ODGGGGGTMT	TIMPOOTER
CRF01_AE_T	TICLVIDAGAQ	VAAPUTELIM	OKTELHATHT.	ΔΙ.Ουσασεινι	TIMEDOOMER
CRF01_AE_T	TIGITATORGICO	VAAPUTELIN	OKTELHATHI	ΔΙ-ΟΠΟΩΩΦΊΛΙ	TYMDOONATA
CRF01_AE_T		VAADTITIIN	OKSELHATHI.	ΔΙ.ΟΠΟΟΟΦΥΑΥ	TIMBOOTER
CRF02_AG_F	TOTATORORY	VA A 2 DIT DITLIM	OKTELHATYT.	ΔΙ.Ουσασεννι	TIMERONIATO
CRF02_AG_F	TDMOMQ	VAADUTELIN	OKTRUHATYT.	ΔΙ.Λησασενικι	TIMECOLERE
CRF02_AG_G	THE TATIONS	VAADUTELIM	OKTELHATHT.	AT.ODGGGGGM	TIMBOART
CRF02_AG_N	TICTATOMORQ	VAAPLIELIN	OKTET HATHT.	AT-ODGGGGGGGG	TIMMOOLEE
CRF02_AG_S	THE TAXABLE	VA A 2 TWE L.I.M	OKTELHATHI.	AT.ODGGGGGTM	TIMPOOILE
CRF02_AG_S		MAADHIDIIM	OKTELHATEL.	ΔΙ.ΟΦΟΟΟΦΙΝΙ	TIMMOOTER
CRF03_AB_R	AGYVTDRGRQ	KVVSLTDTTN	OKTELOATHT.	TODSGI.EXVI	TVTDCVYAT C
				X-COUR VIV	TATDSATUR

CRF03_AB_R	AGYVTDRGRQ	KVVSLTDITN	QKTELHAIHL	ALQDSGLEVN	IVTDSQYALG
CRF04_cpx_	AGYVTDRGRQ	KVVSLSETTN	QKTELQAIYL	ALQDSGSEVN	IVTDSQYAIG
CRF04_cpx_	AGYVTDRGRQ	KVVSLSETTN	QRTELQAIYL	ALKDSGSEVN	IVTDSQYAIG
CRF04_cpx_	AGYVTDRGRQ	KVITLPETTN	QKTELQAIYL	ALODSGSEVN	IVTDSQYAMG
CRF05_DF_B	AGYITDKGRQ	KAVSLTETTN	QKAELQAIHL	ALODSGLEVN	IVTDSQYALG
CRF05_DF_B	AGYVTDKGRQ	KAVSLTETTN	QKTELHAIYL	ALODSGSEVN	IVTDSQYALG
CRF06_cpx_	AGYVTDRGRQ	KVVTLTETTN	QKTELQAINL	ALODSGPEVN	IVTDSQYALG
CRF06_cpx_	AGYVTDRGRQ	KVVSLAETTN	QKTELOAINL	ALODSGSEVN	IVTDSQYALG
CRF06_cpx_	AGYVTDKGRQ	RVISLTETTN	OKTELOAINL	ALODSGSEVN	IVTDSQYALG
CRF06_cpx_	AGYVTDRGRQ	KVVSLTETTN	OKTELOAINL	ALODSGSEVN	IVTDSQYALG
CRF11_cpx_	AGYVTDKGRQ	KVITLTETTN	OKTELEAIHL	ALODSGLEVN	IVTDSQYALG
CRF11 cpx	AGYVTNKGRQ	KVITPIETTN	OKTELEATHI	ALKDSGLEVN	IVTDSQIALG
D CD 84ZRO	AGYVTDRGRO	KVVPFTDTTN	OKTELOATNI	AT.ODSGLEVA	IVIDSQIALG
D_CD_ELI_K	AGYVTDRGRO	KVVPLTDTTN	OKTELOATNI	ALODSGI.EVM	
D CD NDK M	AGYVTDRGRO	KVVPFTDTTN	OKTELOATMI	VI ODGGI EAM	IVTDSQYALG
D UG 94UG1	AGYVTDRGRO	KVVSLTDTTN	OKTELOATNI.	VI ODGCI EAM	IVTDSQYALG
F1 BE VI85	AGYVTDKGKO	KVVSLTETTN	OKARLOATVI.	VI ODECCEAN	IVTDSQYALG
F1 BR 93BR	AGYVTDRGRO	KAVSLTETTN	OKARLOATOL	VI ODGCGETAT	IVTDSQYALG
F1 FI FIN9	AGYVTDRGRO	KVVSLTETTN	OKVET OV TRI	AT ODGGGGGAM	IVTDSQYALG
F1 FR MP41	AGYVTDRGRO	KAVILTETTN	OKVETOVER	MASSSCOM	IVTDSQYALG
F2 CM MP25	AGYITDRGRO	KVVSLTETTN	OKARDOWIUP	ALQUSGSEVN	IVTDSQYVLG
F2KU BE VI	AGYVTDKGRO	KVVSLTETTN	OKALET OMEAL  OKALET OMEAL	ALODOGOEVN	IVTDSQYALG
G BE DRCBL	AGYVTDKGRO	IIITLTETTN	ONVELTATOR	ALODGOGEVN	IVTDSQYAIG
G NG 92NG0	AGHVTDKGKO	KIITLTETTN	ONVERTINATOR	ALQUSQSEVN	IVTDSQYALG
G SE SE616	AGYVTDKCKO	KIITLTETTN	ONABIOATOL	ALQUSRPEVN	IVTDSQYALG
H_BE_VI991	AGYVTDRGKO	KIVSLTETTN	OVARDON TAT	ALQDSRSEVN	IVTDSQYALG
H BE VI997	AGYVTDKGKO	KVVALTETTN	OKLEPOVIAL	ALQESGPEVN	IVTDSQYALG
H_CF_90CF0	AGYVTDROKO	KVVALIETIN	OWIETOWIN	ALQUSGLEVN	IVTDSQYALG
J SE SE702	AGYVTDKGRQ	KALLI LIDUMI	OKHELOYZAL	ALQUSGLEVN	IVTDSQYALG
J SE SE788	ACTAIDIGEO	KVITLTDTTN	OKURLIN	ALQDSGIEVN	IVTDSQYALG
K CD EQTB1	AGT ATDYGKÓ	KVVTLTDTTN	QKTELHATYL	ALRDSGLEVN	IVTDSQYALG
K CM MP535	AGIVIDRGRO	KVISITETTN	OKTELQAIHL	ALQDSGSEVN	IVTDSQYALG
N_CM_MF333	AGIVIDAGAQ	KVVSITETTN	QKAELQAICL	ALQDSGSEVN	IVTDSQYALG
O CM ANT70	AGE VIDRGRO	KVVSIADTTN	QKAELQAILM	ALQESGRDVN	IVTDSQYAMG
O CM MVP51	AGI VIEQGKQ	KIIKLDETTN	QKAELMAILL	ALQDSKETVN	IVTDSQYALG
O_CM_MVP51 O SN 99SE	AGIVIEVGRO	NIIKLEETTN	QKAELMAVLI	ALQDSKEQVN	IVTDSQYVLG
	AGIVIENGRO	KIIKLEETTN	QRAELMAVLL	ALQDSKETVN	IVQDSQYVLG
O_SN_99SE_ U CD 83C	AGIVIERGRO	KIVKLEETTN	QKAELMAVLL	ALQDSKETVN	IVTDSQYVLG
0_CD83C	AGYVIDRGRQ	KVISLTETTN	QKAELQALYL	ALQDSGLEAN	IVTDSQYALG
	701				
00000762 1	701	CDT 1810.7.7.4			750
00BW0762_1 00BW0768_2	TIQAQPDKSE	SELVNQIIEQ	LIKKEKVYLS	WVPAHKGIGG	NEQIDKLVSS
	TIQAQPDKSE	SELVNQIIEQ	LIKKERVYLS	WVPAHKGIGG	NEQVDKLVSK
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00BW1759_3	IIQAQPDKSE	SELVNQIIEE	LIKKERVYLS	_	NEQVDKLVSS
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00BW2127_2	IIQAQPDKSE	SELVNQIIEQ	LIKKDRVYLS	WVPAHKGIGG	NEOADKI nee
00BW2128_3	IIQAQPDKSE	SELVNQIIEQ	LIKKERVYLS	WVPAHKGIGG	NEOADKI'ASM
00BW2276_7		SELVNQIIEQ		WVPAHKGIGG	NEOADKI ASK
00BW3819_3	IIQAQPDKSE	SEIVNQIIEQ	LIQKDRVYLS	WVPAHKGIGG	NEOADKI ASS
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000000000	TTONODDWOD	CET 1310 T T 30			
00BW3842_8 00BW3871_3	TIONOPPICE	SELVNOTIEG	LIKKERVYLS	WVPAHKGIGG	NEQVDKLVSS
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	TIQAQPDKSE	SELANGITEO	LIKKEKVYLS	WVPAHKGIGG	NEQVDKLVSS
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A2 CD 97CD	IIQAQPDSSE	SELVNQIIEK		MADPHKGIGG	NEOADKTASK
A2 CY 94CY	IIQAQPERSE	SEIVNQIIEK	LIEKERVYLS		NEQVDKLVSC
A2D 97KR	IIQAQPDRSE				NEQVDKLVSS
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A BY 97BL0	IISAQPDRSE		LIKKEXVYLX		NEQVDKLVSS
A KE Q23 A	IIQAQPDKSE		LIEKDKVYLS		NEQVDKLVSN
A SE SE659		SELVNOTTEK	LVGKDKVYLA	WVPAHKGIGG	NEQVDKLVSS
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A SE SE853	TTOAOPDSSE	SELVMOTTER	LIGKDKVYLS	WVPAHKGIGG	NEOADKTASS
A SE SE889	TIOAOPDRSE	SELVMOTIER	LIGKDKVYLS	WVPAHKGIGG	MEGADKTASS
A SE UGSE8	TTOAOPDKSE	SELVMOTTER	LIEKDKVYLS	WVPAHKGIGG	NEQVDKLVSA
A_UG_92UG0	TTOAOPDRSE	SELVMOTTER	LIEKDKVYLS	WVPAHKGIGG	NEOADKTASS
A_UG_U455	TTOMODDESE	CETIMIOTTER	DIEVDKAITS	WVPAHKGIGG	NEQVDKLVSS
AC IN 2130	TTOAODDKSE	CELVMOTTEN	LIEKEKVYLS	WVPAHKGIGG	NEQVDKLVSS
AC RW 92RW	TTOAODDSSE	SEDANOTIEO	LIKKERVYLS	WIPAHKGIGG	NEQVDKLVSN
AC_SE_SE94	TIONODDEC	SELVMOTTEN	LIKKERVYLS	WVPAHKGIGG	NEQVDKLVSS
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ACG_BE_VI1	TIONODDROE	SELVNOTTEK	LIGKDKVYLS	WVPAHKGIGG	NEQVDKLVSS
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AD_SE_SE71	TIONOPPE	SELVSQITEQ	LIKKEKVYLS	WVPAHRGIGG	NEQVDKLVSN
	TIONODDROE	SETANGITEK	LIGKDKVYLS	WVPAHKGIGG	NEQVDKLVSS
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C_IN_95IN2					
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CRF01 AE C					
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CRF01_AE_T					
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CRF01_AE_T					
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CRF02_AG_G					
CRF02_AG_N					
CRF02_AG_S					
CRF02_AG_S					
CRF03_AB_R					
CRF03_AB_R					
CRF04_cpx_					
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CRF04 Cpx					
CRF05_DF_B					
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CRF06_cpx_					
CRF11_cpx_					
CRF11_cpx_ D_CD_84ZR0					
D_CD_BLI_K					
~_~~_ _{PTT} _V	IIQAQPDKSE S	SELVNQIIEQ	LIKKEKVYLA	WVPAHKGIGG	NEOVDKT VSO
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96BW17A09					
96BWMO1_5					
98BWMC12_2					
98BWMC13 4					
98BWMC14_a		- TOTOLDDIEN	CINSNWRAMA	N D D NT D D T * * * * * * * * * * * * * * * *	ETVASCDRCO
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99BW4745_8					
99BW4754_7			. IDDNWKAMA		******
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A2 CD 97CD			TUDNMKAMA		TITTED A ALLES
A2_CY_94CY					
A2D_ 97KR					
A2G_CD_97C					
A BY 97BL0					
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A_SE_SE659					
A SE SE725					
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A_SE SE853					
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A_SE_UGSE8					
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AC IN 2130					
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AC_SE_SE94					
ACD_SE SE8					
ACG_BE_VI1					
AD_SE_SE69					
AD_SE_SE71					
ADHK NO 97	GIRKVIFIDG	TDVAQEEHER	YHSNWRAMAS	DENTEDAK	EIVASCDKCO
ADK CD MAL					
AG_BE_VI11					
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AGU CD Z32	GIRKVIFIDG	TOKAQEDHER	YHSNWKAMAS	DFNLPPIVAK DFNLPPIVAK	EIVASCDKCQ
AJ BW BW21	GIRKVIFLDG	TDKAOEEREK	YHCNWRAMAS	DFNLPPIVAK DFNLPPIVAK	EIVASCDKCQ
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B_DE_D31_U					
B DE HAN U					
B_FR_HXB2_					
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B_GB_MANC					
B_KR_WK_AF					
B_NL_3202A					
B_TW_TWCYS					
B_US_BC_LO					
B_US_DH123	GIRRVLFLDG	IEKAOEEHEK )	MICHIWRAMAS	DFNLPPVVAK E	:IVASCDKCQ
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B US MNCG	GIRKVLFIDG .	LDKYOEDITEK 1	I HSINWRAMAS	DENTEBIAY E	IVASCDKCQ
B_US_P896_	GIRKVLFLDG	IDKAOEEHEK V		DEMINITED IN E	IVASCDKCQ
_		~		PENTERANAW E	IVASCNKCQ

B_US_RF_M	l GIRKVLFLDG	IDKAQDEHER	YHSNWRAMA	S DEMILDOUGA	K EIVASCDKCQ
B_US_SF2_1 B_US_WEAU	GIRKVLFLNG	IDKAQEEHER	YHSNWRAMA	S DENT. PRINTIP	K EIVASCDKCQ K EIVASCDKCQ
B_US_WEAU	L GIRKVLFLDG	IDKAQEEHER	YHSNWRAMA	S DENT. PRINTIP	C EIVASCDKCQ C EIVASCDKCQ
B_US_YU2 N	GIRKVLFXDG	IDXAQEDHER	YHSNWRAMA	S DFNLPPVVAI G EFNLPPVXAI	C BIVASCDKCQ
B_0S_102_F BF1_BR_93E	GIRKVLFLDG	IDKAQEEHEK	YHSNWRAMA	G EFNLPPVXAI S DFNLPPVVAI	ELANCONCO
C_BR_92BR(	GIRKATETDG	IDKAQEEHEK	YHNNWRAMA	S DFNLPPVVAR S DFNIPPVVAR	EINVECTION
C_BW_96BW0	GIKKATETDG	INKAQEEHEK	YHSNWRAMA	S DFNIPPVVAK S EFNLPPIVAK	ETANSCOKCO
C_BW_96BW1	GIRKATETDG	IDKAQEEHEK	YHCNWRAMA	S EFNLPPIVAK S EFNLPPIVAK	EINVECDROO
C_BW_96BW1	GIREVLFLDG	IDKAQEEHEK	YHSNWRAMA	S EFNLPPIVAK S EFNLPPIVAK	EIVASCDACQ
C_BW_96BW1	CINCULAR DO	IDKAQEEHEK	YHNNWRAMA	S EFNLPPIVAK S DFNLPPIVAK	EIVASCDRCO
C_ET_ETH22	GIRKATE DG	IDKAQEEHEK	YHSNWRAMA	S DFNLPPIVAK S EFNLPPIVAK	EIVASCDKCO
C_IN_93IN1	GIRKATETE	IDKAQEEHEK	YHSNWRAMA	S EFNLPPIVAK N EFNIPPVVPK	EIVACCDRCO
C_IN_93IN9	GIRKANTEIDG	IDKAQEEHEK	YHSNWRAMA	N EFNIPPVVPK S DFNLPPVVAK	EIVASCDOCO
C_IN_93IN9	GIRKVIELDG	IDKAQEEHEK	YHSNWRAMA	S DFNLPPVVAK S DFNLPPVVAK	EIVASCDOCO
C_IN_94IN1	GIRRVIFIDG	IDKAGEEHEK	YHSNWRAMA:	S DFNLPPVVAK S DFNLPPIVAK	EIVASCGOCO
C_IN_95IN2	GTRKVI.FI.DG	IDKAGEEHEK	YHSNWRAMA!	S DFNLPPIVAK S DFNLPPVVAK	EIVASCDOCO
CRF01 AE C	GTRKVI.FI.DG	IDVAGERHER	YHSNWRAMA	5 DFNLPPVVAK 5 DFNLPPVVAK	EIVASCDOCO
CRF01_AE_C	GIRKVIELDG	IDVAQUEHER	YHSNWRTMAS	5 DFNLPPVVAK 5 DFNLPPIVAK	EIVANCDKCO
CRF01_AE C	GIRKVIFLDG	IDVAQEDHER	YHSNWRAMAS	DFNLPPIVAK DFNLPPIVAK	EIVASCDKCO
CRF01_AE_T	GIRKVIFLDG	TDKAOEEHER	YHSNWRTMAS	DFNLPPIVAK DFNLPPIVAK	EIVANCDKCO
CRF01_AE_T	GIRKVLFLDG	TDKAOPERER	YHSNWRTMAS	DFNLPPIVAK DFNLPPIVAK	EIVANCDKCO
CRF01_AE_T	GIRKVLFLDG	TOTAQEERER	YHSNWRTMAS	DFNLPPIVAK DFNLPPIVAK	EIVANCDKCO
CRF01_AE_T	GIRKVLFLDG	TDKAOFFUED	IHSNWRTMAS	DFNLPPIVAK DFNLPPIVAK	EIVANCDKCQ
CRF01_AE_T	GIRKVLFLDG	TDKAOEFUER	MICHIGAN	DFNLPPIVAK DFNLPPVVAK	EIVANCDKCQ
CRF01_AE_T	GIRKVLFLDG	IDKAOEEHED	VICATION	DENTEBIATK	EIVTNCDKCQ
CRF02_AG_F	GIRKVLFLDG	IDKAOEEHGP	THOMMETMAS	DFNLPPIVAK DFNLPPIIAK	EIVANCDKCQ
CRF02_AG_F	GIRKVLFLDG	IDKAOEEHER	VUCNIMICAMAS	DFNLPPIIAK DFNLPPIVAK	EIVACCDQCQ
CRF02_AG_G	GFRKILFLDG	LDKAOEEHEK	FHENINDAMAG	DFNLPPIVAK	EIVACCDKCQ
CRF02_AG_N	GIRKVLFLDG	IDKAOEEHER	VHSNWKAMAS	DFNLPPIVAK	EIVASCDKCQ
CRF02_AG_S	GIRKVLFLDG	IDKAQEEHER	YHSNWDAMAS	DFNLPPIVAK DFNLPPVVAK	EIVASCDKCQ
CRF02_AG_S	GIRKVLFLDG	IDKAQEEHER	YHSNWRAMAC	DFNLPPVVAK EFNLPPIVAK	EIVASCDKCQ
CRF03_AB_R	GIREVLFLDG	IDKAQEEHEK	YHGNWRAMAG	EFNLPPIVAK DFNLPPVVAK	EIVASCDKCQ
CRF03_AB_R	GIRKVLFLDG	IDKAQEAHEK	YHSNWRAMAS	DFNLPPVVAK DFNLPPVVAK	EIVASCDKCQ
CRF04_cpx_	GIRKVLFLDG	IDKAQEEHEK	YHNNWRAMAS	DFNLPPVVAK DFNLPSVVAK	RIVASCDKCO
CRF04_cpx_	GIRKVLFLDG	IDKAQEDHEK	YHSNWRAMAS	DFNLPSVVAK DFNLPPVVAK	RIVASCNKCO
CRF04_cpx_	GIRKVLFLDG	IDKAQEEHEK	YHNNWKAMAS	DFNLPPVVAK	ET VASCNKCO
CRF05_DF_B	GIRKVLFLDG GIRKILFLDG	IDKAQDEHEK	YHSNWRAMAS	DEMILEPVVAK	ETANSCNKCO
CRF05_DF_B CRF06_cpx	GIRKILFLDG :	IDKAQEEHEK '	YHNNWRAMAS	DENT. DOWN IN	ET VASCDKCQ
CRF06_Cpx_	GIRKVLFLDG :	(DKAQEDHER	YHSNWRAMAN	DENT PRIVAK	ETVASCDKCO
CRF06_cpx_	GIRKVLFLDG GIRKVLFLDG	DKAQEDHER	YHSNWRAMAS	DENLPPIVAK	ELM CONCO
CRF06_cpx_	GIRKVLFLDG D	DKAQEDHER	YHSNWRAMAS	DFNLPPILAK	EIVACCDRCO
CRF11 CDX	GIRKVLFLDG ]	DKAQEEHER	YHSNWRAMAN	DFNLPPIVAK	EIVASCDKCO
CRF11 CDX	GIRKVLFLDG ]	DKAQEDHDR	YHSNWRTMAS	DFNLPPIVAK 1	EIVASCDKCO
D_CD_84ZRO	GIRKVLFLDG I	DKAPEGHER T	YHSNWRAMAS	DFNLPPVIAK 1	EIVANCDKCO
D_CD_ELI K	GIRKVLFLDG I	DVAQEEHEK 7	HSNWRAMAS	DFNLPPVVAK I	EIVASCDKCO
D_CD_NDK_M	GIRKVLFLDG I	DKAOEEHEK )	HNNWRAMAS	DFNLPPVVAK I	EIVASCDKCO
D_UG_94UG1	GIRKVLFLDG I	DRYOERIEK 7	HNNWRAMAS	DFNLPPVVAK I	SIVASCDKCO
F1_BE_VI85	GIRKILFLDG I	ркуовышк а	HNNWRAMAS	EFNLPPVVAK E	EIVASCDKCO
F1_BR_93BR	GVRKILFLDG I	ркуовыных з	HNNWRAMAS	DFNLPPIVAK E	IVASCDKCO
F1_FI_FIN9	GIRKVLFLDG I	DKYOBEREK A	HNNWRAMAS	DFNIPAVVAK E	IVASCDKCQ
F1_FR_MP41	GIRKILFLDG I	DKVОБЬпол л луковиру Х	TININWRAMAS	DFNLPPVVAK E	IVASCDKCQ
F2_CM_MP25	GIRKVLFLDG I	DKAOEEHEK V	TEMMERAMAS	DENTABAANYK E	IVASCDKCQ
F2KU_BE_VI	GIRKVLFLDG I	DKAOEEREK A	TANTAN AMAG	DENTEBAAYK E	IVASCDKCQ
G_BE_DRCBL	GIRKVLFLDG I	DKAOEEHED V	HOMENTANAS .	DENTEBIANK E	IVASCDKCQ
G_NG_92NG0	GIRKVLFLDG I	DKAOEEHED V	HOMMANAS.	DENTEDIAW E	IVASCDKCQ
G_SE_SE616	GIRKVLFLDG I	DKAOERHED V	HINTETT AND C	DENT BEAAR E	IVASCDKCQ
<b>H_BE_VI991</b>	GIRKVLFLDG I	OKAOVOHEK V	HENTURANAS I	DENTEDIANK E	IVASCDKCQ
H_BE_VI997	GIRKVLFLDG II GVRKVLFLDG II	OKAQEAHER V	HNMMDAMAG :	SENT DOS	IVASCDKCQ
H_CF_90CF0	GVRKVLFLDG II	OKAQEEHER VI	HNNWRAWAS	PENTERIVAK E	IVASCDKCQ
				THUPPELLYAK E	TVASCDKCO

J_SE_SE702	GIRKVLFLD	G IDKAOEEHE	K YHSNWRAMAS	DENT DOWN	
J_SE_SE788					
K_CD_EQTB1					
K_CM_MP535					
N_CM_YBF30					
O_CM_ANT70					
O_CM_MVP51					
O_SN_99SE_					
O_SN_99SE_					
n_cd83c	GIRKVLFLD	IDKAOEEHEI	R YHSNWRAMAS	DEGTE DESCRIPTION	EIIANCPKCH
			TILDIWITHING	DEMPSTATE	EIVASCDKCQ
	801				
00BW0762_1	LKGEAIHGQ1	V DCSPGIWQLI	CTHLEGETIL	VANDUA COM	850
00BW0768_2					
00BW0874_2					
00BW1471_2					
00BW1616_2					
00BW1686_8					
00BW1759_3					
00BW1773_2					
00BW1783_5					
00BW1795_6					
00BW1811_3					
00BW1859_5					
00BW1880 <u>2</u>					
00BW1921_1					
00BW2036_1					
00BW2063_6					
00BW2087_2					
00BW2127_2					
00BW2128_3					
00BW2276_7					
00BW3819_3					
00BW3842 <u>8</u>					
00BW3871 <u></u> 3					
00BW3876_9					
00BW3886_8					
00BW3891 <u></u> 6					
00BW3970 <u>2</u>					
00BW5031 <u>1</u>					
96BW01B21					
96BW0407					
96BW0502					
96BW06_J4					
96BW11_06					
96BW1210					
96BW15B03					
99BW4745_8	LKGEAIHGQV	DCSPGIWOLD	CTHLEGKVIL V	AVIIVASGII E	AEVIPAETG
	_			AVAVASGYI E	ALVIPAETG

99BW4754_7	OKCENTUCO	I DOGDOTION			
99BWMC16_8	LKGEATHGO	DCSPGIWQLI	CTHLEGKII	L VAVHVASGY:	I EAEVIPAETG
A2_CD_97CD					
A2 CY_94CY					
A2D 97KR					
A2G_CD_97C					
A BY 97BL0					
A_KE_Q23 A					
A_SE_SE659					
A SE SE725					
A SE SE753					
A_SE_SE853					
A SE SE889					
A SE UGSE8					
A UG 92UG0					
A UG U455					
AC_IN_2130					
AC RW 92RW					
AC SE SE94					
ACD SE SE8					
ACG_BE_VI1					
AD_SE SE69					
AD SE SE71					
ADHK NO 97					
ADK_CD_MAL					
AG_BE_VI11					
AG_NG_92NG					
AGHU GA VI					
AGU_CD_Z32					
AJ BW BW21					
B_AU_VH AF					
B_CN_RL42					
B DE D31 U		DOOL GTMOTH	COMPONICAR FOR	1/7 TTTT7 0011-	
B_DE_HAN_U					
B_FR_HXB2_					
B_GA_OYI_					
B_GB_CAM1					
B GB GB8 A					
B_GB_MANC_					
B_KR_WK AF					
B_NL 3202A		DCGEGTMUTH	C"FHIARCROTT	177 177777 ~ ~~~~	
B_TW_TWCYS					
B_US_BC_LO					
B_US_DH123	VKGEAMHGOV	DCSEGIMOTE	CIHLEGKIIL	VAVHVASGYI VAVHVASGYI	EAEVIPAETG
B_US_JRCSF					
B_US_MNCG					
B_US_P896					
B_US_RF_M1					
B_US_SF2_K					
B_US_WEAU1					
B_US_WR27_					
B_US_YU2_M					
BF1_BR_93B					
C_BR_92BR0					
C_BW 96BW0					
C_BW_96BW1					
C_BW_96BW1					
C_BW_96BW1					
C_ET_ETH22					
C_IN_93IN1					
C_IN_93IN9					
	LKGEAMHGQV	CCSEGIMÖTD)	CIHLEGKIIL	VAVHVASGYI	EAEVIPAETG

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C_IN_93IN9 QKGRAMHGQV DCSPGIWQLD CTHLEGKIIL VAVHVASGYI EAEVIPAETG
 C_IN_94IN1 LKGRAMHGQV DCSPGIWQLD CTHLEGKIIL VAVHVASGYM EAEVIPAETG
 C_IN_95IN2 LKGEATHGQV DCSPGIWQLD CTHLEGKIIL VAVHVASGYM EAEVIPAETG
 CRF01_AE_C LKGEAMHGQV DCSPGIWQLD CTHLEGKVIL VAVHVASGYI EAEVIPAETG
 CRF01_AE_C LKGEAMHGQV DCSPGIWQLD CTHLEGKVIL VAVHVASGYI EAEVIPAETG
 CRF01_AE_C LKGEAMHGQV DCSPGIWQLD CTHLEGKVIL VAVHVASGYI EAEVIPAETG
 CRF01_AE_T LKGEAMHGQV DCSPGIWQLD CTHLEGKVIL VAVHVASGYI EAEVIPAETG
 CRF01_AE_T LKGEAMHGQV DCSPGIWQLD CTHLEGKVIL VAVHVASGYI EAEVIPAETG
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 CRF02_AG_F LKGEAMHGQV DCGPGIWQLD CTHLEGKIIL VAVHVASGYI EAEVIPAETG
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 CRF02_AG_N MKGEAMHGQV DCGPGIWQLD CTHLEGKIIL VAVHVASGYI EAEVIPAETG
 CRF02_AG_S LKGEAMHGQV DCSPGIWQLD CTHLEGKIIL VAVHVASGYI EAEVIPAETG
 CRF02_AG_S LKGEAMHGQV DCSPGIWQID CTHLEGKIII VAVHVASGYI EAEVIPAETG
 CRF03_AB_R LKGEAMHGQV DCSPGIWQLD CTHLEGKIIL VAVHVASGYI EAEVIPAETG
CRF03_AB_R
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CRF04_cpx
LKGEAMHGQV DCSPGIWQLD CTHLEGKILL VAVHVASGYI EAEVIPAETG
CRF05_DF_B
LKGEAMHGQV DCSPGIWQLD CTHLEGKVIL VAVHVASGYI EAEVIPAETG
CRF05_DF_B
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CRF05_DF_B LKGEAMHGQV DCSPGIWQLD CTHLEGKVIL VAVHVASGYI EAEVIPAETG
CRF06_CPX LKGEAIHGQV DCSPGIWQLD CTHLEGKIIL VAVHVASGYI EAEVIPAETG
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G_SE_SE616 LKGEAMHGQV DCSPGIWQLD CTHLEGKIII VAVHVASGYI EAEVIPAETG
H_BE_VI991 LKGEAMHGQV DCSPGIWQLD CTHLEGKIIL VAVHVASGYI EAEVIPAETG
H_BE_VI997 LKGEAMHGQV DCSPGIWQLD CTHLEGKVIL VAVHVASGYI XPEVIPAETG
H_CF_90CF0 LKGEAMHGQV DCSPGIWQLD CTHLEGQVIL VAVHVASGYI EAEVIPAETG
J_SE_SE702 LKGEAMHGQV DCSPGIWQLD CTHLEGKVIL VAVHVASGYI EAEVIPAETG
J_SE_SE788 LKGEAMHGQV DCSPGIWQLD CTHLEGKVIL VAVHVASGYI EAEVIPAETG
K_CD_EQTB1 LKGEAIHGQV DCSPGIWQLD CTHLEGKIIL VAVHVASGYI EAEVIPAETG
K_CM_MP535 LKGEAIHGQV DCSPGIWQLD CTHLEGKIIL VAVHVASGYI EAEVIPAETG
N_CM_YBF30 LKGEAMHGQV NCSPGVWQLD CTHLEGKIIL VAVHVASGYL EAEVIPAETG
O_CM_ANT70 IKGEAIHGQV DCSPEVWQID CTHMEGKIII VAVHVASGFI EAEVIPAETG
O_CM_MVP51 IKGEATHGQV DYSPEIWQMD CTHLEGKIII VAVHVASDFI EAEVIPAETG
O_SN_99SE_ IKGEAIHGQV DCSPEVWQMD CTHLEGKIII VAVHVASGFI EAEVIPAETG
O_SN_99SE_ IKGEAIHGQV DYSPEVWQID CTHLEGKIII VAVHVASGFI EAEVIPAETG
U_CD__83C LKGEAMHGQV DCSPGIWQLD CTHLEGKVIL VAVHVASGYL EAEVIPAETG
              851
00BW0762_1 QETAYYILKL AGRWPVKIIH TDNGSNFTSA AVKAACWWAG IQQEFGIPYN
00BW0768_2 QETAYYILKL AGRWPVKVIH TDNGSNFTSA AVKAACWWAG IQQEFGIPYN
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00BW0874_2		
00BW1471	TOTAL TOTAL ACTUAL OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROP	
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00BW1686_8	TOTAL TAKEN AGENT OF THE TOTAL CANDINGS TOTAL TOTAL CONTROL OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF	
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98BWMC14_a	QETAYYILKL AGRWPVKIIH TDNGSNFTSG AVKAACWWAG IQQEFGIPYN QETAYYILKL AARWPVKYIH TDNGSNFTSG AVKAACWWAG IQQEFGIPYN	
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98BWM018_d	QETAYFILKL AGRWPVKVIH TDNGSNFTSA AVKAACWWAG IQQEFGIPYN QETAYYILKL AGRWSVKTIH TDNGSNETSA AVKAACWWAG IQQEFGIPYN	
98BWM036_a	QETAYYILKL AGRWDVKVIH TDNGGNERGA AVKAACWWAG IQQEFGIPYN	
98BWM037_d	QETAYYILKL AGRWPVKVIH TDNGSNFTST AVKAACWWAG IQQEFGIPYN QETAYFILKL AGRWPVKVIH TDNGSNFTSP AVKAACWWAG IQQEFGIPYN	
99BW3932 <u>1</u>	QETAYFILKL AGRWPVKVIH TDNGSNFTSA AVKAACWWAG IQQEFGIPYN QETAYYILKL AGRWPVKVIH TDNGSNFTSA AVKAACWWAG IQQEFGIPYN	
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99BW4745_8		
99BW4754_7	QETAYYILKL AGRWPVKTIH TDNGSNFTST AVKAACWWAG IQQEFGIPYN QDTAYYMLKL AGRWPVKYIH TDNGSNFTST AVKAACWWAG IQQEFGIPYN	
99BWMC16_8	QDTAYYMLKL AGRWPVKVIH TDNGSNFTSA AVKAACWWAG IQQEFGIPYN QETAYFLLKL AGRWPVKVIH TDNGDNETGA	
A2_CD_97CD	QETAYFLLKL AGRWPVKVIH TDNGPNFTSA AVKAACWWAG VQQEFGIPYN QDTAYFILKL AGRWPVKVIH TDNGPNFISA AVKAACWWAD VKQEFGIPYN	
A2_CY_94CY	QDTAYFILKL AGRWPVKVIH TDNGPNFISA TVKAACWWAD VKQEFGIPYN QETAYFILKL AGRWPVKVIH TDNGPNFISA TVKAACWWAG IQQEFGIPYN	
A2D97KR	QETAYFILKL AGRWPVKVIH TDNGSNFISA PVKAACWWAG IQQEFGIPYN QETAYFILKL AGGWPVKVIH TDNGSNETGA	
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A_KE_Q23_A	TO THE TOTAL ACKNOWN IN THIS PROPERTY OF THE PARTY OF THE	
A_SE_SE659		
A_SE_SE725	QETAYFLLKL AGRWPVKIVH TDNGSNFTSA AFKAACWWAN IQQEFGIPYN QETAYFILKL AGRWPVKITH TDNGSNFTSA AFKAACWWAS IQQEFGIPYN	
A_SE_SE753	QETAYFILKL AGRWPVKVIH TDNGSNFTSA AVKAACWWAS IQQEFGIPYN QETAYFILKL AGRWPVKVIH TDNGSNFTSA AVKAACWWAN VKQEFGIPYN	
A_SE_SE853		
A_SE_SE889		
A_SE_UGSE8	QEAAYFLLKL AGRWPVKVVH TDNGSNFTSA AFKAACWWAN VQQEFGIPYN	
	A SAGE GIAN	

A_UG_92UG0	OPTAVELLET	7 CDMDING			
A_00_J2000 A_UG_U455	OETAIT DUAL	AGRWPVKVVH	TDNGSNFTSA	AVKAACWWAN	VKQEFGIPYN
AC_IN_2130	OPTAIL THEN	AGRWPVKVIH	TDNGSNFTSA	AVKAVCWWAN	IQQEFGIPYN
AC_IN_2130 AC_RW_92RW	<b>ADIMITITUT</b>	<b>AGKMDAKATH</b>	TDNGSNFTSA	AVKAACWWAG	TOOPPOIDVM
AC_SE_SE94	<b>ADIVILITIVE</b>	ACKMDAKATH	TUNGSNFTSN	TVKAACWWAG	TOOFFGIDVN
ACD SE SE8	OEMY ABLE IN	AGRWPVRRVH	TDNGSNFTSA	AVKAACWWAN	IQQEFGIPYN
	<b>ADIMILITY</b>	AGRWPVKVVH	TDNGSNFTSA	ARKAACUWA C	MOOPPOTRING
ACG_BE_VI1	<b>ARIVITATION</b>	ACKMPAKATH	TUNGSNFTSA	א א נוווווים א מאנוע	VTQEFGIPYN
AD_SE_SE69	<b>ADIMILITY</b>	AGKWPVKVVH	TDNGSNFTST	ΔΥΚΑΔΟΚΙΜΙΛΟ	TRAPPATRIME
AD_SE_SE71	OETAYFILKL	AGRWPVKVIH	TDNGSNFTSA	AVKAACWWAG	IQQEFGIPYN
ADHK_NO_97	<b>GRINILITYT</b>	AGKMDAKATH	TDNGSNFISA	AVKAACWWAD	TROPECTOVA
ADK_CD_MAL	<b>GRIAXLIPKP</b>	AGRWPVKVVH	TDNGSNFTSA	AVKAACWWAN	TKOEFGIDVM
AG_BE_VI11	QETAYFILKL	AGRWPVKILH	TDNGSNFISA	AVKAACWWAD	IKQEFGIPYN
AG_NG_92NG	QETAYFLLKL	AGRWPVKVIH	TDNGSNFTSA	AMKAACWWAN	TOOPPOIDVM
AGHU_GA_VI	QETAYFILKL	AGRWPVKVIH	TDNGTNFTSA	AVKAACWWAN	VTQEFGIPYN
AGU_CD_Z32	<b>GETHILITYP</b>	AGRWPVKVVH	TDNGSNFTSA	AVKAACWWAN	TTOFFCTDVM
AJ_BW_BW21	<b>GRIAYFILKE</b>	AGRWPVTVIH	TDNGSNFTSA	AVKAACWWAG	VROEFGIPYN
B_AU_VH_AF	OPINITURE	AGRWPVKTVH	TDNGPIFTST	AVKAACMMAG	IKQEFGIPYN
B_CN_RL42_	<b>GETAXEPPKP</b>	AGRWPVKTIH	TDNGRNFTSN	SVKAACWWAG	TROPPOTRIAL
B_DE_D31_U	ORTAXETPKT	AGRWPVKTIH	TDNGSNFTST	ΤΊΛΚΑ Α ΟΙΜΙΆΑ Ο	VKOEFGIPYN
B_DE_HAN_U	<b>ARTHITUT</b>	AGKMLAKTAH	TUNGPNFTST	TVKAACWWAG	IKQEFGIPYN
B_FR_HXB2_	<b>GETAYFULKT</b>	AGRWPVKTIH	TDNGSNFTGA	TVRAACWWAG	IKQEFGIPYN
B_GA_OYI	QETAYFILKL	AGRWPVKTIH	TDNGSNFTST	TVKAACWWAG	IKQEFGIPYN
B_GB_CAM1_	QETAYFLLKL	AGRWPVKTIH	TDNGGNFIST	TVKAACWWAG	IKQEFGIPYN
B_GB_GB8_A	QDTAYFILKL	AGRWPVKTIH	TDNGRNFTST	TVKAACWWAG	IKQEFGIPYN
B_GB_MANC_	QETAYFLLKL	AGRWPVTTIH	TDNGSNFTST	TVKAACWWAG	IKQEFGIPYN
B_KR_WK_AF	QETAYFLLKL	AGRWPVKTIH	TDNGSNFTSN	TVKAACWAR.	IKQEFGIPYN
B_NL_3202A	QETAYFILKL	AGRWPVTTIH	TDNGSNFTSA	TVKAACWWAG	IKQEFGIPYN
B_TW_TWCYS	QETAYFLLKL	AGRWPVKTIH	TDNGSNFTSA	AVKAACWWAG	IKQKFGIPYN
B_US_BC_L0	QETAYFLLKL	AGRWPVKTIH	TDNGSNFTST	TVKAACWWAG	IKQEFGIPYN
B_US_DH123	QETAYFILKL	AGRWPVKTIH	TDNGSNFTST	TVKAACWWAG	IKQEFGIPYN
B_US_JRCSF	QETAYFLLKL	AGRWPVTTIH	TDNGSNFTST	TVKAACWWAG	IKQEFGIPYN
B_US_MNCG_	QETAYFLLKL	AGRWPVKTIH	TDNGPNFTST	TVKAACWWTG	INCEPCION
B_US_P896	QETAYFLLKL	AGRWPVKTIH	TDNGSNETST	TVKAACWWAG	INCERCIPIN
B_US_RF_M1	QETAYFILKL	AGRWPVKVIH	TDNGSNFTST	TVKAACWWAG	INCERCIPIN
B_US_SF2_K	QETAYFLLKL	AGRWPVKTIH	TDNGSNETST	TVKAACWWAG	INCERCIPIN
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B US YU2 M	QETAYFLLKL	AGRWPVTTTH	TDNGSNETSA	TVKAACWWAG	INCERGIPIN
BF1_BR_93B	QETAYFLLKL	AGRWPVKTIH	TDNGSNETST	TVKAACWWAG	TKOERGIPYN
C BR 92BR0	QETAYFILKL	AGRWPVKVTH	TONGSNETSN	TVKAACWWAG	INQEFGIPYN
C BW 96BW0	QETAYYILKL	AGRWPVKVTH	TONGSNETST	AVKAACWWAG	TOOFFGIPYN
C_BW_96BW1	QETAYYILKL	AGRWPVKTTH	TONGSNETSA	AVKAACWWAG	TOOREGIPYN
C_BW 96BW1	QETAYFILKL	AGRWPVKVTH	TDNGSNETSN	AVKAACWWAG	TOOFFGIPYN
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C ET ETH22	QETAYFLLKL	AGRWPVRVTH	TONGSNETSM	AVKAACWWAG	TOOREGIPYN
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C IN 93IN9	QETAYFILKL	AGRWPVKVTH	TDNGSNETSA	AVKAACWWAG	TOOREGIPYN
C_IN_93IN9	OETAYYILKI	AGRWDVKVTH	TONGONE TOA	AVKAACWWAS	IQQEFGIPYN
C IN 94IN1	OETAYFILKL	AGRWPVKVTH	TONGSNETCA	AVKAACWWAG	IQQEFGIPYN
C_IN_95IN2	OETAYFILKL	AGRWDVKVTH	TONGONE ISA	AVKAACWWAG	IQQEFGIPYN
CRF01 AE C	OETAYFLLKI	AG PDVKVTU	TONGSNE ISA	AMKAACWWAG	IQQEFGIPYN
CRF01_AE_C	OETAYFLLKT	AGDMDVDVTU	TONGONE TON	AMKAACWWAN	VQQEFGIPYN
CRF01 AE C	OETAVELLKI.	ACDMDWAYTH	TDNGSNFTSA	AVKAACWWAN	VQQEFGIPYN
CRF01 AE T	OETAVELLET.	VGDMD/MALLEL	TUNGSNETSA	TVKAACWWAN	VQQEFGIPYN
CRF01 AE T	OETAVETTUM.	VCDMDAGATA	TUNGSNETSA	AVKAACWWAN	VRQEFGIPYN
CRF01_AE_T	S-TETTOND	VCDMDAGGGGG	IDNGSNFTSA	AVKAACWWAN	VRQEFGIPYN
CRF01_AE_T	Anterthing	ACREDITE	TUNGSNFTSA	AVKAACWWAN	VRQEFGIPYN
CRF01_AB_1 CRF01_AB_T	<b>した山かんはままた</b> ろって好すなければ下	AGKWPVKVIH	TONGSNFTSA	AVKAACWWAN	VRQEFGIPYN
CRF01_AE_T	APTWIETPKP	AGRWPVKVIH	TDNGSNFTSA	AVKAACWWAN	VQQEFGIPYN
CRF01_AE_T	OEMANDE:	AGRWPVKVVH	TDNGSNFTSA	AVKAACWWAN	VRQEFGIPYN
CRF02_AG_F	GETAXETEKE	AGRWPVKVIH	TDNGSNFTSA	AVKAACWWAN	VTOFFGIDVM
CALUZ_AG_F	<b>APTAIRTPKT</b>	AGKWPVKVIH	TDNGSNFTSA	AVKAACWWAN	VTQEFGIPYN

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   G BE DRCBL QETAYFILKL AGRWPVKIIH TDNGSNFTSA AVKAACWWAS ITQEFGIPYN
   G_NG_92NG0 QETAYFILKL AGRWPVKVIH TDNGPNFISA AVKAACWWAN ITQEFGIPYN
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	zama zam zamogiogi	

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B CN RL42	DUSUGIAMEN	MADPITIES	VRDQAEHLKT	AVQMAVFIHN	FKRKGGIGGY
B_DE_D31_U	POSOGVVESM	DEDENTIGO	VRDQAEHLKT	AVQMAVFIHN	FKRKGGIGGY
B DE HAN U	POSOGVVESM	MARINATIOO	VRDQAEHLKT	AVQMAVFIHN	FKRKGGIGGY
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	POSOGVYESM	NNELKKIIGQ	VRDQAEHLKT	AVQMAVFIHN	FKRKGGIGGY
B_US_WEAU1	POSOGVIESM	NKELKKIIGQ	VRDQAEHLKT	AVQMAVFIHN	FKRKGGIGGY
B_US_WR27_	POSOGVVESA	NKELKKIIGQ	VRDQAEHLKT	AVQMAVFIHN	FKRKGGIGGY
B_US_YU2_M	POSOGVVESM	NKELKKIIGQ	VRDQAEHLKT	AVQMAVFIHN	FKRKGGIGGY
BF1_BR_93B C BR 92BR0	<b>LOS GGATEDM</b>	NYEPYKTIGÖ	VRDOAEHLKT	AVOTAVETEM	PRDREGTERY
C_BR_92BR0 C_BW_96BW0	POSOG A A FISIM	NKEPKKIIGÖ	VRDOAEHLKT	AVOMAVETHM	FKD CCTCCV
	POSOGVVESM	NKELKKIIGQ	VREQAEHLKT	AVQMAVFIHN	FKRKGGIGGY
C_BW_96BW1	POSOGVVESM	NKELKKIIGQ	VRDQAEHLKT	AVQMAVFIHN	FKRKGGIGGY
C_BW_96BW1	POSOGAARR	NKELKKIIGQ	VRDOAEHLKT	AVOMAVETHM	FKPKGGTGGV
C_BW_96BW1	PUSUGVVESM	NKELKKIIGQ	VRDOAEHLKT	AVOMAVETHN	FKPKCGTCGV
C_ET_ETH22	POSOGAAESW	NKELKKIIGQ	VREOAEHLKT	AVOMAVETHN	FKDDGGTGGV
C_IN_93IN1	POSOGAAFISM	NKELKKIIGQ	VRDOAEHLKT	AVOMAVETHM	FKDKCCTCCV
C_IN_93IN9	POSOGAARW	NKEPKKIIGÖ	VRDOAEHLKT	AVOMAVETEN	FKDKGGTGGV
C_IN_93IN9	POSOGAARSM	NKETKKIIGÖ	VRDQAEHLKT	AVOVAVETHN	FKPPCCTCCV
C_IN_94IN1	POSOGAAR	NKETKKIIGO	VRDOAEHLKT	AVOMAVETHM	EKDRGGTGGV
C_IN_95IN2	POSOGAARSW	NKELKKIIGQ	VRDOAEHLKT	AVOMAVETHM	RKDKGGTGGV
CRF01_AE_C	POSOGAARSM	NKETKKAIGÖ	VREOAEHLKT	AVOMAVETHM	FKPKGGTCCV
CRF01_AE_C	POSOGAARSW	NKELKKIIGQ	VREOAEHLKT	AVOMAVETHM	FKDKCCTCDV
CRF01_AE_C	POSOGAAESW	NKETKKIIGO	VREOAEHLKT	AVOMAVETHM	FKPKCCTCCV
CRF01_AE_T	POGOGAARR	NKELKEIIGQ	VREOAEHLKT	AVOMAVETHM	FKPKGGTGGV
CRF01_AE_T	POSOGAAESW	NKELKKIIGO	VREOAEHLKT	AP MAURTHM	PERCETE V
CRF01_AE_T	POSOGAARSW	NKELKKIIGQ	VREQAEHLKT	AVOMAVETHM	FKPKGGTGGV
CRF01_AE_T	POSOGAARSM	NKELKKIIGQ	VRDOAEHLKT	AVOMAVETHM	RKRKGGTGGV
CRF01_AE_T	POSOGA A R S M	NKELKKIIGO	VREOAEHLKT	AVOMAVETHM	PKPKGGTGGV
CRF01_AE_T	POSOGAARESM	NKETKKIIGÖ	VREOAEHLKT	AVOMAVETHM	FKPKGGTGGV
CRF02_AG_F	POSOGA A PWM	MKETKKTIGÖ	VRDOAEHLKT	MHTWVAMOVA	PRDROCTOOV
CRF02_AG_F	POSOGAARSM	NKEPKKIIGÖ	VRDOAEHLKT	AVOMAVETHM	FKPKCCTCCV
CRF02_AG_G	POSOGAARR	NKEPKKIIGÖ	VRDOAEHLKT	AVOMAVETHM	FKPKCCTCCV
CRF02_AG_N	POSOGAARSW	NKELKKIIGQ	VRDOAEHLKT	AVOMAVETEM	FKDKGGTGGV
CRF02_AG_S	PQSQGVVESM	NKETKKIIGÖ	VRDQAEHLKT	AVOMAVITHM	FKPPCGTCGV
CRF02_AG_S	POSOGAARSM	NKRPKKIIGÖ	VRDOAEHLKT	AVOMAVETHM	FKDDGGTGGV
CRF03_AB_R	PQSQGVVESM	NKOTKOLIGO	VRDOAEHLKT	AVOMAVETHM	RKDKGGTGGV
CRF03_AB_R	POSOGAAESW	NKOTKOIIGO	VRDQAEHLKT	AVOMAVETHN	FKRKGGTGGV
CRF04_cpx_	POSOGAAESM	NKELKKIIGÖ	VRDOAEHLKT	AVOMAVETHM	FKRKGGTGGV
CRF04_cpx_	POSOGAAESM	NKELKKIIKQ	VRDQAEHLKT	AVOMAVETHN	FKRKGGTGGV
CRF04_cpx_	PQSQGVVESM	NKELKKIIGQ	VRDQAEHLKT	AVOMAVFIHN	FKRKGGTEGV
CRF05_DF_B	PQSQGVVESM	NKELKKIIGQ	VRDQAEHLKT	AVOMTVFIHN	PKRKGGTGGV
CRF05_DF_B	POSOGAARSW	NKELKKIIGQ	VRDQAEHLKT	AVOMAVETHN	PKRKGGTGGV
CRF06_cpx_	POSOGAARSW	NKELKKIIGQ	VREQAEHLKT	AVOMAVFIHN	FKRKGGTGGV
CRF06_cpx_	POSOGAARSW	NKELKKIIGO	VREOAEHLKT	AVOMAVETEM	RKDKCGTCCV
CRF06_cpx_	PQSQGVVESM	NKELKKIIGQ	VRDQAEHLKT	AVQMAVFIHN	FKRKGGIGGY
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CRF06_cpx_ PQSQGVVKSM NKELKKIIGQ IRDQAEHLKT AVQMAVYIHN FKRKGGIGGY
   CRF11_cpx_ PQSQGVVESM NKELKKIIGQ IRDQAEHLKT AVQMAVFIHN FKRKGGIGGY
  CRF11_CPX_ PQSQGVVESM NKGLKEIIGQ VREQAEHLKT AVQMAVFIHN FKGKGGIGGY D_CD_84ZR0 PQSQGVVESM NKELKKIIGQ VRDQAEHLKT AVQMAVFIHN FKRKGGIGGY
   D_CD_ELI_K PQSQGVVESM NKELKKIIGQ VRDQAEHLKT AVQMAVFIHN FKRRRGIGGY
  D_CD_NDK_M PQSQGVVESM NKELKKIIGQ VRDQAEHLKT AVQMAVFIHN FKRKGGIGGY
  D_UG_94UG1 PQSQGVVESM NKELKKIIGQ VREQAEHLKT AVQMAVFIHN FKRKGGIGGY
  F1_BE_VI85 PQSQGVVESI NKELKKIIGQ VRDQAEHLKT AVQMAVFIHN FKRKGGIGGY
   F1_BR_93BR PQSQGVVESM NKELKKIIGQ IRDQAEHLKT AVQMAVFIHN FKRKGGIGGY
  F1_FI_FIN9 PQSQGVVESM NKELKKIIGQ VRDQAEHLKT AVQMAVFIHN FKRKGGIGGY
  F1_FR_MP41 PQSQGVVESM NKELKKIIGQ VRDQAEHLKT AVQMAVFIHN FKRKGGIGGY
  F2_CM_MP25 PQSQGVVESM NKELKKIIGQ VRDQAEHLKT AVQMAVFIHN FKRKGGIGGY
  F2KU_BE_VI PQSQGVVESM NKELKKIIGQ IRDQAEHLKT AVQMAVFIHN FKRKGGIGGY
  G_BE_DRCBL PQSQGVVESM NKELKKIIGQ VRDQAEHLKT AVQMAVFIHN FKRKGGIGGY
  G_NG_92NG0 PQSQGVVESM NKELKKIIGQ VGDQAEHLKT AVQMAVFIHN FKRKGGIGGY
  G_SE_SE616 PQSQGVVESM NKELKKIIGQ VRDQAEHLKT AVQMAVFIHN FKRKGGIGGY
  H_BE_V1991 PQSQGVVESM NKELKKIIGQ VRDQAEHLRT AVQMAVFIHN FKRKGGIGGY
  H_BE_VI997 PQSQGVVESM NKELKKIIGQ VRDQAEHLRT AVQMAVFIHN FKRKGGIGGY
  H_CF_90CF0 PQSQGVVESM NKELKKIIGQ VRDQAEHLKT AVQMAVFIHN FKRKGGIGGY
  J_SE_SE702 PQSQGVVESM NKELKKIIGQ VREQAEHLKT AVQMAVFIHN FKRKGGIGGY
  J_SE_SE788 PQSQGVVESM NKELKKIIGQ VREQAEHLKT AVQMAVFIHN FKRKGGIGGY
  K_CD_EQTB1 PQSQGVVESM NKELKKIIGQ VREQAEHLKT AVQMAVFIHN FKRKGGIGGY
  K_CM_MP535 PQSQGVVESM NKELKKIIGQ VRDQAEHLKT AVQMAVFIHN FKRKGGIGGY
  N_CM_YBF30 PQSQGAVESM NKELKKIIGQ IRDQAEHLKT AVQMAVFIHN FKRKGGIGGY
  O_CM_ANT70 PQSQGVVEAM NKELKSIIQQ VRDQAEHLRT AVQMAVFVHN FKRKGGIGGY
  O CM MVP51 PQSQGVVEAM NKELKSIIQQ VRDQAEHLKT AVQMAVFVHN FKRKGGIGGY
  O_SN_99SE_ PQSQGVVEAM NKELKSIIQQ VRDQAEHLKT AVQMAVFVHN YKRKGGIGGY
O_SN_99SE_ PQSQGVVEAM NKELKSIIQQ VRDQAEHLKT AVQMAVFVHN YKRKGGIGGY
  U_CD__83C PQSQGVVESM NKELKKIIGQ VRDQAEHLKT AVQMAVFIHN FKRKGGIGGY
00BW0762_1 SAGERIIDII ATDIQTRELQ KRIIQIQNFR VYYRDSRDPI WKGPAKLLWK O0BW0768_2 SAGERIIDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK O0BW0874_2 SAGERIVDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK O0BW1471_2 SAGERIVDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK O0BW1616_2 SAGERIVDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK O0BW1759_3 SAGERIIDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK O0BW1759_3 SAGERIIDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK O0BW1793_5 SAGERIIDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK O0BW1795_6 SAGERIIDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK O0BW1811_3 SAGERIIDII ATDIQTRELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK O0BW1811_3 SAGERIIDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK O0BW1859_5 SAGERIIDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK O0BW1880_2 SAGERIIDII ATDIQTRELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK O0BW1811_3 SAGERIIDII ATDIQTRELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK O0BW1811_3 SAGERIIDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK O0BW1880_2 SAGERIIDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK O0BW2036_1 SAGERIIDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK O0BW2063_6 SAGERIIDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK O0BW2087_2 SAGERIIDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK O0BW2087_2 SAGERIIDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK O0BW2087_2 SAGERIIDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK OOBW2087_2 SAGERIIDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK 
 00BW2276_7 SAGERIIDII ATDIQTKELQ KQITKIQNFR VYYRDSRDPI WKGPAKLLWK
 00BW3819_3 SAGERIIDII ATDIQTRELQ KQIIQIQNFR VYYRDSRDPI WKGPAKLLWK
 00BW3842_8 SAGERIIDII ATDIQTKELQ NQITKIQNFR VYYRDSRDPI WKGPAKLLWK
00BW3871_3 SAGERIIDII ATDIQTKELQ KQITKIQNFR AYYRDSRDPI WKGPAKLLWK
00BW3876_9 SAGERIIDII ATDIQTKELQ NQITKIQNFR VYYRDSRDPI WKGPAKLLWK
00BW3886_8 SAGERIIDII ATDIQTKELQ NQIIKIQNFR VYYRDSRDPI WKGPAKLLWK
00BW3891_6 SAGGRIIDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK
00BW3970_2 SAGERIIDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK SAGERIIDII ATDIQTKELQ KQITKIQNFR VYYRDSRDPI WKGPAKLLWK
 96BW01B21 SAGERIIDII ATDIRTKELQ KQIMKIRNFR VYYRDSRDPI WRGPAKLLWK
96BW0407 SAGERIIDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPV WKGPAKLLWK
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96BW0502	SAGERIIDII	ATDIQTKELQ	KQIIKIQNFR	VYYRDSRDPI	WKGPAKLLWK
96BW06_J4	DESCRIPTION	WIDIOIVETO	סידארו דואיוי ונוא	17VVDDCDDDT	CATEGOR & TOT TO SECOND
96BW11_06	DWORKTIDMI	MIDIOIKETO	KOLIKTONTED	IVVDDCDDDT	TATEOTER SET TO SEE
96BW1210	O'TODKT TDTT	WIDIOI IPPO	KOTTKLUMED	TOVDDCDDDT	WITH THE PARTY OF THE
96BW15B03	OWORKTIDII	WIDIGIVE PO	KOTIKIONER	VVVDDGGGGGV	MECHANIC TRACE
96BW16_26	TATOUTTEDIT	WIDIOIVETO	KOTTKLOMES	WVVDDCDDDT	STEED TO BE THE THE
96BW17A09	DECRETABLE	WIDIOIKEPO	KOLIKIONFR	WVVDDGDGDW	MICOUN DE TENTE
96BWM01_5	DECRETABLE	MIDIOIKETO	KOTTKTONTPD	TOURINGOUS	DITECTOR NAME OF THE
96BWM03_2	DEGRETATION	<b>AIDIOLKETO</b>	KOITKIONFR	VVVDDGDDDT	WINCED A DET T TATE
98BWMC12_2	21102117	WIDIGINGTO	- KOTJK LUMBB	זזממסמסססס	TATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY
98BWMC13_4	OWGEKTIDII	AIDIGIKETO	KOIIKIONFR	VVVDDMDDDT	WEATH A TEXT T TITLE
98BWMC14_a	OMORKTIDII	<b>ATDIGLORPO</b>	KOLIKIONFR	VYVRDGDDDT	WINCIDARLETTED
98BWM014_1	DEGREETIDIT	AIDIOIKEPO	KOILNTOKER	VVVDDGDDDT	MICOD A DET T TARE
98BWM018_d	SAGERIIDII	ATDIQTRELO	ROIIKIOTER	WWWDGGDDGT	MECDATE T THE
98BWM036_a	SAGERIIDII	ATDIQTKELQ	ROTLKTONER	ATIKDSKDAT	
98BWM037_d	SAGERIIDII	ATDIQTKELQ	KOTTKTONED	ATIVDSKDAT	
99BW3932 1	SAGERIIDII	ATDIQTRELQ	KOTTOTONER	ATIKDSGDPT	
99BW4642 4	SAGERIIDII	ATDIQTRELQ	KOLIKIOMEN	VIIRDSRDPI	WKGPAKLLWK
99BW4745 8	SAGERIIDIT	ATDIQTKELQ	VOTINIONER	VIIRDSRDPI	WKGPAKLLWK
99BW4754 7	SAGERITATI	ASDIQTRELQ	MOTINIONER	VYYRDSRDPI	
99BWMC16_8	SAGERITATI	ATDIQTKELQ	KOTEKTONEK	VYYRDSRDPI	WKGPAKLLWK
A2_CD 97CD	SAGERIIDII	VADIOANEL O	KOTTKIONFR	VYYRDSRDPI	WKGPAKLLWK
A2_CY_94CY	SAGERITATI	ATDIOTKELO	KÖTTKTÖNFR	VYYRDSRDPI	WKGPAKLLWK
A2D 97KR	SAGEPITATE	ATDIOTKELO	RQITKIQNFR	VYYRDSRDPI	WKGPAKLLWK
A2G_CD_97C	CACEDITATE	ATDIQTKELQ	RQTTKIQNFR	VYYRDSRDPI	WKGPAKLLWK
A BY 97BL0	SWGEKIIDII	ASDIQTKELQ	KQITKIQNFR	VYYRDSRDPI	WKGPAKLLWK
A_KE_Q23 A	OWNERTIDIT	WIDIGIKETO	KXITKTONTX	TALLES LES LAND	WKGPAKLLXK
A_KE_Q23_A A SE SE659	OWORKTIDIT	WIDIGIKETŐ	KHITKIONFR	VYYRDSRDDI.	WKGPAKLFWK
A SE SE725	SAGERIIDII	ATDIQTRELQ	KQIIKIQNFR	VYYRDSRDPI	WKGPAKLLWK
	SAGERIIDII	ATDIQTKELQ	KQITKIQKFR	VYYRDSRDPI	WKGPAKLLWK
A_SE_SE753	SAGERIIDII	ATDIQTKELQ	KQITKIQNFR	VYYRDSRDPI	WKGPAKLLWK
A_SE_SE853	SAGERIIDII	ATDIQTKELQ	KOITKIONFR	TOTOSOTATVV	WKGPAKLLWK
A_SE_SE889	PAGEKTIDII	ATDIQTKELO	KOITKIONFR	WVVPDGDDDT.	WKGPAKLLWK
A_SE_UGSE8	SAGERIIDII	ATDIOTKELO	KOIT, TONER	MADDEDUDT	WKGPAKLLWK
A_UG_92UG0	SAGERIIDII	ASDLQTKELO	KOITKIOKFR	VCVPDGPDDT	WKGPAKLLWK
A_UG_U455_	PAGERIIDII	ATDIQTKELO	KOISKIONER	MAADUGDUDA	WKGPAKLLWK
AC_IN_2130	SAGERIIDII	ATDIQTKELO	KOIIKTONFR	VVVDDGDDDT	WKGPAKLLWK
AC_RW_92RW	SAGERIIDII	ATDIQTKELO	KOITKIONER	TOTOSTAVVV	WKGPAKLLWK
AC_SE_SE94	SEGERTIDIT	ATDIQTKELO	KOITKIONER	VVVDDGDDDT	WKGPAKLLWK
ACD_SE_SE8	PAGEKTIDII	ATDIQTKELO	KOITKIOKER	VVVPDGDNDT	WKGPAKLLWK
ACG_BE_VI1	SAKEKIIDII	ASDIQTKELO	KPITKIONER	VVVDDGDDDT	WEGDART THE
AD_SE_SE69	SAGEKTIDII	ATDIOTKELO	ROITKTONED	WVVDDCDDDT	DIRECTOR SET TOTAL
AD_SE_SE71	DWGEKTIDII	WIDIOIKEPO	KHITKIONFR	VYYRDSPDDT.	MECDART TAR
ADHK_NO_97	OWGRETTOVI	WIDIOLKERO	KOLIKTOMER	MADDGGGAAM	DITECTOR NAMES OF TAXABLE
ADK_CD_MAL	SAGERIIDMI	ATDIQTKELQ	KOITKIONER	VVVDDMDDDT	MICHARDLIMK
AG_BE_VI11	SAGERIIDII	ASDIQTKELQ	KXITKTXNFR	VYVDDGDDDT	WKGPAKLLWK
AG_NG_92NG	DECEMENTAL	MODIFIED	KOLIKIONER	דממסמססססד	DATECTOR TOT T TARE
AGHU_GA_VI	SAGERIIDII	ASDIQTKELQ	KOTTKTONER	VYVDDCDDDT	WKGPAKLLWK
AGU_CD_Z32	SAGERIVDII	ASDIQTKELQ	NOTTKTONED	VYVDDGDDDT	WKGPAKLLWK
AJ_BW_BW21	SAGERIIDMI	ATDIQTKELQ	KOTTKTONED	VIIKDSKDPI	WKGPAKLLWK
B_AU_VH AF	SAGERIIDII	ASDIQTKELQ	KULLKIÖNEK	VIIRDSRDPI	WKGPAKLLWK
B_CN_RL42_	SAGERIVDIT	ATDIOTRELO	KOTEKTOMER	VYYRDSRDPL	WKGPAKLLWK
B_DE_D31 U	SAGERIVDIT	ATDIOTRELO	VOTURIONER	VYYRGSRDPL	WKGPAKLLWK
B_DE_HAN_U	SAGERIVDIT	ATDIOTKELO	WATIVIÓNEK	VIIKUSRDPL	WKGPAKLLWK
B_FR_HXB2_	SAGERTUDIT	ATDIOTKELO	VÄTIVIÄNEK	VYYRDSREPF	WKGPAKLLWK
B GA OYI	SAGERTUDIT	ATDIQTKELQ	VÕTIKTÕNEK	VYYRDSRNPL	WKGPAKLLWK
B_GB_CAM1_	OWORKTADIT	NIDIGLERIO	KOLTKTONFR	WWDDCDDD.	MEAN THE PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY AND PROPERTY
B_GB_GB8_A	DYGEKTIDII	<b>YIDIÖLKETÖ</b>	KQITKIONFR	VYYRDSRDPI.	WKCDAYTIME
B_GB_MANC_	DITORKIADIT	WIDIGIKEPO	KOTTKIONFR	VYYRDSRDDT.	WKCDAVITAW
B_KR_WK_AF	PHOCKTADIT	WIDIOIKEPO	KQITKIONFR	VYYRDSRNDI.	WKCDAYTTME
	SWGEKIIDII	AIDIQTKELQ	KOVTKIONFR	VYYRDSRDDT.	WKCDAYTTWY
B_NL_3202A	PWGPKTADIT	WIDIOIKETO :	KOITKIONFR	VVVRDGDDDT.	WECDART TWE
B_TW_TWCYS	SAGERIVDII	AIDIQTKELQ	KQITKIQNFR	VYYRDNRDPL	WKGPAKLLWK

B_US_BC_L0 SAGERIVDII ATDIQTKELQ KQITKIQNFR VYYRDNKDPL WKGPAKLLWK B_US_DH123 SAGERIVDII ASDIQTKELQ KQITKIQNFR VYYRDSRDPL WKGPAKLLWK B_US_JRCSF SAGERIIDII ATDIQTKELQ KQITKIQNFR VYYRDNRDPI WKGPAKLLWK B_US_MNCG_ SAGERIVGII ATDIQTKELQ KQITKIQNFR VYYRDSRDPL WKGPAKLLWK B_US_P896 SAGERIVDII ASDIQTKELQ KQITKIQNFR VYYRDSRDPL WKGPAKLLWK B_US_RF_M1 SAGERIVDII ATDIQTKELQ KQITKIQNFR VYYRDSRDPL WKGHAKLLWK B_US_SF2_K SAGERIVDII ATDIQTKELQ KQITKIQNFR VYYRDNKDPL WKGPAKLLWK B US WEAU1 SAGERIIDII ATDIQTQQLQ KQITKIQNFR VYYRDSRDPL WKGPAKLLWK B US WR27 SAGERIIDII ATDIQXKXLQ XQXTIXQNXR VYYRDSRDPL WKGPAKLLWK B_US_YU2_M SAGERIVDII ATDIQTKELQ KQITKIQNFR VYYRDSRDPL WKGPAKLLWK BF1_BR_93B SAGERIVDII ATDIQTKELQ KQITKIQNFR VYYRDSRDPL WKGPAKLLWK C_BR_92BR0 SAGERIIDII ATDIQTKELQ KQIMKIQNFR VYYRDSRDPI WKGPAKLLWK C BW 96BW0 SAGERIIDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPV WKGPAKLLWK C_BW_96BW1 SAGERIIDMI ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK C_BW_96BWl SAGERIIDII ATDIQTTELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK C_BW_96BWl SAGERIIDII ATDIQTKELQ KQITKIQNFR VYYRDSRDPI WKGPAKLIWK C_ET_ETH22 SAGERIIDII ASDIQTKELQ NQILKIQNFR VYYRDSRDPI WKGPAKLLWK C_IN_93IN1 SAGERIIDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK C_IN_93IN9 SAGERIIDII ATDIQTKELQ KQITKIQNFR VYYRDSRDPI WKGPAKLLWK C_IN_93IN9 SAGERIIDII ATDIQTKELQ KQIIKIHNFR VYYRDSRDPI WKGPAKLLWK C IN 94IN1 SAGERIIDII STDIQTRELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK C_IN_95IN2 SAGERIIDII ATDIQTKELQ KQITKVQNFR VYYRDSRDPI WKGPAKLLWK CRF01_AE_C SAGERIIDII ATEIQTKEXQ KQITKIQNFR VYYRDSRDPI WKGPAKLLWK CRF01_AE_C SAGERIIDII ATDIQTKALQ KQITKIQNFR VYYRDSRDPI WKGPAKLLWK CRF01_AE_C SAGERIIDII ATDIQTKELQ KHITKIQNFR VYYRDSRDPI WKGPAKLLWK CRF01_AE_T SAGERIIDII ATDIQTKELQ KQITKIQNFR VYYRDSRDPI WKGPAKLLWK CRF01_AE_T
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CRF04_CPX_
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CRF04_CPX_
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CRF04_CPX_ CRF04_cpx_ SAGERIIDII ASDIQTKELQ KQITKIQNFR VYYRDSREPI WKGPAKLLWK CRF04_cpx_ SAGERIIDII ASDIQTKELQ KQITKIQNFR VYYRDSRDPI WKGPAKLLWK CRF04_CPX_ SAGERIIDII ASDIQTKELQ KQIIKIQNFR VYYRDSKDPI WKGPAKLLWK
CRF05_DF_B GAGERIIDII TTDIQTKELQ KQIIKIQNFR VYYRDSRDPV WKGPAKLLWK
CRF05_DF_B SAGEGIIDII STDIQTKELQ KQITKIQNFR VYYRDSRDPV WKGPAKLLWK CRF06_cpx_ SAGERIIDII ASDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK CRF06_cpx_ SAGERIIDII ASDIQTKELQ KQITKIQNFR VYYRDSRDPI WKGPAKLLWK CRF06_cpx_ SAGERIIDII ASDIQTKELQ KQITKIQNFR VYYRDSRDPI WKGPAKLLWK CRF06_cpx_ SAGERIIDII ASDIQTKELQ KQITKIRNFR VYYRDSRDPI WKGPAKLLWK CRF11_cpx_ SAGERIVDII ATDLQTKELQ KQITKIQNFR VYYRDSRDPI WKGPAKLLWK CRF11_CPX SAGERIIDII ATDLQTKELQ KQITKIQKFR VYYRDSRDPI WKGPAKLLWK D_CD_84ZR0 SAGERIIDII ASDIQTRELQ KQITKIQNFR VYYRDSRDPI WKGPAKLLWK D_CD_ELI_K SAGERIIDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK D_CD_NDK_M SAGERIIDII ATDIQTRELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK D_UG_94UG1 SAGERIIDII ATDIQTKELQ KQIIKIQNFR VYYRDSRDPV WKGPAKLLWK F1_BE_VI85 SAGERIIDII STDIQTRELQ KQITKIQNFR VYYRDSRNPV WKGPAKLLWK F1_BR_93BR SAGERTIDII ATDIQTRELQ KQIIKIQNFR VYYRDSRDPV WKGPAKLLWK F1_FI_FIN9 SAGERIIDII ATDIQTKELQ KQVTKIQNFR VYYRDSRDPV WKGPAKLLWK F1_FR_MP41 SAGERIIDII STDIQTRELQ KQIIKIQNFR VYYRDSRDPV WKGPAKLLWK F2_CM_MP25 SAGERIIDII ATDIQTKELQ KQISKIQNFR VYFRDSRDPV WKGPAKLLWK F2KU_BE_VI SAGERIVDII ASDIQTRALQ KQITKIQNFR VYYRDSRDPI WKGPAKLLWK G_BE_DRCBL SAGERIIDII ASDIQTKELQ KQITKIQNFR VYYRDSRDPI WKGPAKLLWK

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G_NG_92NG0 SAGERIIDII ASDIQTKELQ KQIIKIQNFR VYYRDSRDPI WKGPAKLLWK
G_SE_SE616 SAGERIIDII ASDIQTKELQ KQITKIQNFR VYYRDSRDPV WKGPAKLLWK
H_BE_VI991 SARERIIDII ATDIPTKELQ KQISQIQKFR VYYRDSRDPI WKGPAKLLWK
H_BE_VI997 SAGERIIDII ATDIQTKELQ KQISNIQKFR VYYRDSRDPI WKGPAKLLWK
H_CF_90CF0 SAGERIIDII ATDIQTKELQ KQISNIQKFR VYYRDSRDPI WKGPAKLLWK
J_SE_SE702 SAGERIIDII ATDIQTKELQ KQITKIQNFR VYYRDSRDPI WKGPAKLLWK
J_SE_SE788 SAGERIIDII ATDIQTRELQ KQITKIQNFR VYYRDSRDPI WKGPAKLPWK
K_CD_EQTB1 SAGERIIDII ATDIQTKELQ KQITKIQNFR VYYRDSREPI WKGPAKLLWK
K_CM_MP535 SAGERIVDII ATDIQTKELQ KQILNIQKFR VYYRDSREPI WKGPAKLLWK
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O_CM_ANT70 TAGERIIDIL ASQIQTTELQ KQILKXHKFR VYYRDSRDPI WKGPAQLLWK
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U_CD__83C SAGERIIDII ATDIQTKELQ KQITKIQNFR VYYRDSRDPI WKGPAQLLWK
1001

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00BW0768_2 GE.GAVVIQD NSDIKVVPRR KVKIIKDYGK QMAGADCVAG RQDED.
00BW0874_2 GE.GAVVIQD NGDIKVVPRR KVKIIKDYGK QMAGADCVAG RQDED.
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00BW1616_2 GE.GAVVIQD NSDIKVVPRR KVKIIKDYGK QMAGADCVAG RQDED.
00BW1686_8 GE.GAVVIQD NSDIKVVPRR KAKIIRDYGK QMAGADCVAG RQDED.
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  96BW06_J4 GE.GAVVIQD NSDIKVVPRR KVKIIKDYGK QMAGADCVAS RQDED.
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98BWM037_d		, MODIVAABK	C KAKITDDVAT	. UMD UD UTTO U	
99BW3932_1	02.02244700	MODIVAABK	KAKITKNVŒ	· AMACIANA C	2022
99BW4642_4	02.0140100	NODIVABLE	L KAKTTRDVŒR	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	~~~~
99BW4745_8		NOTIVALER	Y KVKITKNVŒV	^MACATA C	
99BW4754_7		VODITVANKK	KAKITKNVÆK		2022
99BWMC16_8		, MODIVAABK	KAKIIKNVAW	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
A2_CD_97CD	OH. OH A LOD	MODIVAABK	KAKTTPhvak		2022
A2_CY_94CY	0-1011111DD	MODITV A A BKK	KAKITROVCK		20222
A2D97KR		MODITVANK	RAKITADVCK		202
A2G_CD_97C	CHICKATOD	MAD TV A A BKK	י אייטרוס.דו.אייא		B 6 B
A_BY_97BL0		NVDIVABLE	KAKITYNYYK	OMACIVITATION	D 0 D
A_KE_Q23_A	ON CHANTOD	NODIVABRE	KAKTTRNVÆR		202
A_SE_SE659	AT - 011 A 1 A 1 A 1	NODIVANER	KAKITRDVŒ		B0555
A_SE_SE725	OT : GEA ATOD	MMDTVAABKK	KAKILBUAGK		2022
A_SE_SE753	CD.CWALTOD	いっつエアヘヘトドド	KVKTTRNVCK		7077
A_SE_SE853	OT OWA ATOD	NODITYAARK	KAKTTPDVŒĸ		D.0.
A_SE_SE889	ON GEATITAN	NOUTKAABKK	KAKTTRDVCK	OMACDOGTTAG	B05555
A_SE_UGSE8	OM - OW A LOD	CODITYAABK	KAKTTONVŒW		
A_UG_92UG0	OTH CITY OF TOD	NODIVAARK	KVKTTKDVCK		
A_UG_U455_	CT. CHA ATOD	MODIKAAKK	KAKTTRDVCK		Donne
AC_IN_2130	CT. CLA A TOD	NODIKAARK	KAKTTKNVCK		D0D==
AC_RW_92RW	OH OH VIOD	NODIKAAAK	KAKTTDDVCV		
AC_SE_SE94	OT OT ATOD	MODITYAARK	KVKITRHVŒĸ		20222
ACD_SE_SE8	OT . CHA ATOD	MODITYAABKK	KAKTTRDVCK		DODES
ACG_BE_VI1	OH GWA ATOD	NODIKAAAKK	KAKTTRDVCK		DODDD
AD_SE_SE69	OD: OWA ATOD	NOTIVALEN	KVKTTRDVCK		DODES
AD_SE_SE71	OH. GRAATOD	NODIKAABKK	KAKTTRDVÆR		B05
ADHK_NO_97	OTH OTH ATOD	MGDTVAABKK	KAKTTRNVCK		DODEN
ADK_CD_MAL	OB. GWA ATOD	MODIKAABKK	KAKTTRNVŒŒ	OMMODDATES	005
AG_BE_VI11	OW . OH ANTOD	NNETVAALK	KAKITPDVŒŒ		B05
AG_NG_92NG	OH OH VILL	NOTIVALE	KVKTTKDVŒK		
AGHU_GA_VI		NOCTVANKK	KAKTTRDVCK		B05555
AGU_CD_Z32	OD . CHA ATOD	MODITYAABKK	KAKITRDYCK		DODES
AJ_BW_BW21	ON GRANTOD	NORTKAANKK	KAKTTDDVŒW	OMACIDICATA	505
B_AU_VH_AF	GE.GAVVIQD	NSDIKVVPRR	KAKIIRDYGK	OWACDDCAY C	RQDED.
B_CN_RL42_	GE.GAVVIQD	NSDIKVVPRR	KVKIIRDYGK	OMAGDDGVAS	RQDED.
B_DE_D31_U	GE.GAVVIOD	NSEIKVVPRR	KAKIIRDYGK	OWN CD DCTTA	RQDED.
B_DE_HAN_U	GE.GAVVIOD	NSDIKVVPRR	KAKIIRDYGK	OMCCDDCVAG	RQDED.
B_FR_HXB2	GE.GAVVIOD	NSDIKVVPRR	KAKIIRDYGK	QMGSDDCVAS	RQDED.
B GA OYI	GE.GAVVIOD	NSDIKVVPRR	KAKIIRDYGK	QMAGDDCVAS	RQDED.
B_GB_CAM1	GE.GAVVIOD	NSDIKVVPRP	KAKIIRDYGK	QMAGDDCVAS	RQDED.
B_GB_GB8_A	GE.GAVVIOD	NSDIKVVPPP	KAKIIRDYGK	OMA CDD CVAS	RQDED.
B_GB_MANC_	GE.GAVVIOD	NSEIKWAPPP	KVKIIRDYGK	OMAGDDCVAS	RQDED.
B_KR_WK_AF	GE.GAVVIOD	NSDIKVVPRP	KAKIIRDYGK	OWN CDD CARE	KQDED.
B_NL_3202A	GE.GAVVIOD	NSDIKVVDRD	KVKLLDUAGA	OMAGDDCVAS	KQDED.
B_TW_TWCYS	GE.GAVVIOD	NSDIKVVDRD	KAKIIRDYGK	OMAGDDCVAS	RQDED.
B_US_BC_LO	GE.GAVVIOD	NSDIKWIDDD	KVKLIDDAGA	OWN COOK CONTROL	RQDED.
B_US_DH123	GE.GAVVIOD	KSDIKVAIDDD	MAKI IDDAGA	QMAGDDCVAS	RQDED.
B_US_JRCSF	GE.GAVVIQD GE.GAVVIOD	NSDIKWIDDD	WANTIKDICK	QMAGDDCVAS	RQDED.
B_US_MNCG_	GE.GAVVIQD GE.GAVVIOD	MMD I KINDDD	VAVTIKDACK	UMAGDDCVAS	RQDED.
B_US_P896_	GE.GAVVIQD GE.GAVVIOD	MSDIKANALKK	VWVATKDACK	QTAGDDCVAS	RQDED.
B US RF M1	GE.GAVVIQD	MGDIMANDDD TODIMANDEN	VWKTIKDACK	QMAGDDCVAS	RQDED.
B_US_SF2_K	GE.GAVVIOD	MGDIMADDE	VAKTIRDYGK	QMAGDDCVAS	RQDED.
B_US_WEAU1	CH. CHAATOD	MODITYAAKK	KAKTTRDYGK	OMD CIDD CITY C	DODER
B_US_WR27_	OH GWAATOD	MODIKAAKK	KAKTTRDYGK	OMACHHORIZACO	DARER
B_US_YU2_M	OTH OTH A TOTAL	MODIKAAAKK	KAKIIRDYGK	OMD GDD Cがから	DODED
BF1_BR_93B	OD. GHAATÕD	MODIKAAKK	KAKIIRDYGK	OMAGDDCWAG	DODED
C_BR_92BR0	OH. GHAATOD	MODIKAAKK	KVKIIRDYGK -	OMAGGDCVAG ·	DODED
C_BW_96BW0	GP.GWANDD	NSDIKAABKK	KVKIIKDYGK (	∩Mമ@മന്ന്യമ <i>ം</i>	DODDD
C_BW_96BW1	GE. GWAATOD	MSDIKAAAKK	KVKIIRDYGK (	OMDGDDCMAG .	BODED
	GE.GAVVIQD	MSDTKAAbus	KVKIIRDYGK	QMAGADCVAG	RQDED.

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C_BW_96BW1 GE.GAVVIQD NSDIKVVPRR KVKIIKDYGK QMAGADCVAG RQDED.
 C_BW_96BW1 GEGAVVVIQD NSDIKVVPRR KVKIIRDYGK QMAGADCVAG RQDED.
 C_BW_96BW1 GEGAVVVIQD NSDIKVVPRR KVKIIRDYGK QMAGADCVAG RQDED.
C_ET_ETH22 GE.GAVVIQD NSDIKVVPRR KAKIIRDYGK QMAGADCVAG RQDED.
C_IN_93IN1 GE.GAVVIQD NSDIKVVPRR KAKIIKDYGK QMAGADCVAG RQDED.
C_IN_93IN9 GE.GAVVIQD NSDIKVVPRR KAKIIKDYGK QMAGADCVAG RQDED.
C_IN_94IN1 GE.GAVVIQD NSDIKVVPRR KAKIIRDYGK QMAGADCVAG RQDED.
C_IN_95IN2 GE.GAVVIQD NSDIKVVPRR KAKIIKDYGK QMAGADCVAG RQDED.
CRF01_AE_C GE.GAVVIQD NSDIKVVPRR KAKIIRDYGK QMAGADCVAG RQDED.
CRF01_AE_C GE.GAVVIQD NSDIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
CRF01_AE_C GE.GAVVIQD NSDIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
CRF01_AE_C GE.GAVVIQD NSDIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
CRF01_AE_T GE.GAVVIQD NSDIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
CRF01_AE_T GE.GAVVIQD NSDIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
CRF01_AE_T GE.GAVVIQD NSDIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
 CRF01_AE_T GE.GAVVIQD NSDIKVVPRR KAKIIRDYGK QMAGDDCVAS RQDED.
 CRF01_AE_T GE.GAVVIQD NSDIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
 CRF01_AE_T GE.GAVVIQD NSDIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
 CRF01_AE_T GE.GAVVIQD NSDIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
 CRF01_AE_T GE.GAVVIQD NSDIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
 CRF02_AG_F GE.GAVVIQD KSDIKVVPRR KAKIIKDYGK QMAGDDCVAG RQDED.
 CRF02_AG_F GE.GAVVIQD KSDIKVVPRR KAKIIKDYGK QMAGDDCVAG RQDED.
 CRF02_AG_G GE.GAVVIQD NSDIKVVPRR KAKILRDYGK QMAGDDCVAG RQDED.
 CRF02_AG_N GE.GAVVIQD NSDIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
 CRF02 AG S GE.GAVVIQD NSDIKVVPRR KVKIVRDYGK QMAGDDCVAG RQDED.
 CRF02 AG S GE.GAVVIQD NSDIKVVPRR KTKILRDYGK QMAGDDCVAG GQNED.
 CRF03_AB_R GE.GAVVIQD NNDIKVVPRR KAKIIRDYGK QMAGDDCVAS RQDED.
 CRF03_AB_R GE.GAVVIQD NNDIKVVPRR KAKIIRDYGK QMAGDDCVAS RQDED.
 CRF04_cpx_ GE.GAVVIQD NSDIKVVPRR KAKIIRDYGK QMAGNDCVAG RQDED.
CRF04_cpx_ GE.GAVVIQD NSDIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
 CRF04_CPX GE.GAVVIQD NSDIKVVPRK KAKIIRDYGK QMAGDDCVAG RQDED.
CRF05_DF_B GE.GAVVIQD NSEIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
 CRF05_DF_B GE.GAVVIQD NSEIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
 CRF06_cpx_ GE.GAVVIQD NSEIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
 CRF06_cpx_ GE.GAVVIQD NSEIKVVPRR KAKIIKDYGK QMAGDDCVAG RQDED.
 CRF06_cpx_ GE.GAVVIQD NSDIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
 CRF06_cpx_ GE.GAVVIQD NSEIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
 CRF11_cpx_ GE.GAVVIQD NSDIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
 CRF11_cpx_ GE.GAIVIQD NSDIKVVPRR KAKIIRDYGK QMAGDDCVAG SQDED.
D_CD_84ZRO GE.GAVVIQD NSDIKVVPRR KAKIIRDYGK QMAGDDCVAS RQDED.
D_CD_ELI_K GE.GAVVIQD KSDIKVVPRR KVKIIRDYGK QMAGDDCVAS RQDED.
D_CD_NDK_M GE.GAVVIQD NSDIKVVPRR KVKIIRDYGK QMAGDDCVAS RQDED.
D_UG_94UG1 GE.GAVVIQD NSEIKVVPRR KAKIIRDYGK QMAGDDCVAS RQDED.
F1_BE_V185 GE.GAVVIQD NSEIKIVPRR KAKIIRDYGK QMAVDDCVAG RQDED.
F1_BR_93BR GE.GAVVIQD NSEIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
F1_F1_F1N9 GE.GAVVIQD NSEIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
F1_FR_MP41 GE.GAVVIQD NSEIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
F2_CM_MP25 GE.GAVVIQD NNEIKVIPRR KAKIIRDYGK QMAGDDCVAG RQDED.
F2KU_BE_VI GE.GAVVIQD NSEIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
G_BE_DRCBL GE.GAVVIQD NNEIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
G_NG_92NG0 GE.GAVVIQD NNEIKVVPRR KAKILKDYGK QMAGGDCVAG RQDED.
G_SE_SE616 GE.GAVVIQD NNEIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
H_BE_VI991 GE.GAVVIQD NSEIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
H_BE_VI997 GE.GAVVIQD NSEIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
H_CF_90CF0 GE.GAVVIQD NSEIKVVPRR EAKIIRDYGK QMAGDDCVAS RQDED.
J_SE_SE702 GE.GAVVIQD NSEIKVVPRR KAKIIRDYGK QMAGDDCVAG RODED.
J_SE_SE788 GE.GAVVIQD NSEIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
K_CD_EQTB1 GE.GAVVIQD NSEIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
K_CM_MP535 GE.GAVVIQD NSEIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
N_CM_YBF30 GE.GAVVIQD NSEIKVVPRR KAKIIRDYGK QMAGDDCVAG RQDED.
O_CM_ANT70 GE.GAVVIQD KGDIKVVPRR KAKIIRDYGK QMAGDGCVAS GQDENQ
O_CM_MVP51 GE.GAVVIQD KGDIKVVPRR KAKIIRDYGK QMAGTDSMAS GQTESE
O_SM_QQGR GE.GAVVIQD KGDIKVVPRR KAKIIRDYGK QMAGTDSMAN RQTESE
O_SN_99SE_ GE.GAVVIQD KGDIKVVPRR KAKIIRHYGK QMAGTDSMAS GQTESE
O_SN_99SE_ GE.GAVVIQD KGDIKVVPRR KAKIIRHYGK QMAGTDSMAS GQTESE
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U_CD___83C GE.GAVVIQD NSEIKVVPRR KAKIIRDYGK QMAGDDCVAS RQDEN.

Table 15. HIV Rev Sequence Alignment GCG Multiple Sequence File. Written by Omiga 1.1

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Name: 00BW0768_2	Len:	129	Check: 5102	Weight:	1.00
Name: 00BW0874_2	Len:	129	Check: 5815	Weight:	1.00
Name: 00BW1471_2	Len:	129	Check: 4144	Weight:	1.00
Name: 00BW1616_2	Len:	129	Check: 5298	Weight:	1.00
Name: 00BW1686_8	Len:	129	Check: 3871	Weight:	1.00
Name: 00BW1759_3	Len:	129	Check: 4976	Weight:	1.00
Name: 00BW1773_2	Len:	129	Check: 5775	Weight:	1.00
Name: 00BW1783_5	Len:	129	Check: 6142	Weight:	1.00
Name: 00BW1795_6	Len:	129	Check: 5055	Weight:	1.00
Name: 00BW1811_3	Len:	129	Check: 5804	Weight:	1.00
Name: 00BW1859 5	Len:	129	Check: 5252	Weight:	1.00
Name: 00BW1880_2	Len:	129	Check: 4995	Weight:	1.00
Name: 00BW1921 1	Len:	129	Check: 6482	Weight:	1.00
Name: 00BW2036 1	Len:	129	Check: 4770	Weight:	1.00
Name: 00BW2063_6	Len:	129	Check: 5384	Weight:	
Name: 00BW2087 2	Len:	129	Check: 4848	Weight:	1.00
Name: 00BW2127 2	Len:	129	Check: 5783	Weight:	1.00
Name: 00BW2276 7	Len:	129	Check: 5364	Weight:	1.00
Name: 00BW3819_3	Len:	129	Check: 5712		1.00
Name: 00BW3842 8	Len:	129		Weight:	1.00
Name: 00BW3871:3	Len:	129		Weight:	1.00
Name: 00BW3876 9	Len:	129			1.00
Name: 00BW3886 8				Weight:	1.00
Name: 00BW3891 6	Len:	129	Check: 5415	Weight:	1.00
Name: 00BW3970 2	Len:	129	Check: 5426	Weight:	1.00
Name: 00BW5031 1	Len:	129	Check: 2613	Weight:	1.00
Name: 96BW01B21	Len:	129	Check: 4597	Weight:	1.00
	Len:	129	Check: 5653	Weight:	1.00
Name: 96BW0407	Len:	129	Check: 4310	Weight:	1.00
Name: 96BW0502	Len:	129	Check: 4675	Weight:	1.00
Name: 96BW06_J4	Len:	129	Check: 5079	Weight:	1.00
Name: 96BW11_06	Len:	129	Check: 5939	Weight:	1.00
Name: 96BW1210	Len:	129	Check: 5666	Weight:	1.00
Name: 96BW15B03	Len:	129	Check: 5102	Weight:	1.00
Name: 96BW16_26	Len:	129	Check: 5675	Weight:	1.00
Name: 96BW17A09	Len:	129	Check: 2825	Weight:	1.00
Name: 96BWMO1_5	Len:	129	Check: 5636	Weight:	1.00
Name: 96BWMO3_2	Len:	129	Check: 6552	Weight:	1.00
Name: 98BWMC12_2	Len:	129	Check: 3043	Weight:	1.00
Name: 98BWMC13_4	Len:	129	Check: 5518	Weight:	1.00
Name: 98BWMC14_a	Len:	129	Check: 4358	Weight:	1.00
Name: 98BWMO14_1	Len:	129	Check: 7531	Weight:	1.00
Name: 98BWMO18_d	Len:	129	Check: 5291	Weight:	1.00
Name: 98BWMO36_a	Len:	129	Check: 6801	Weight:	1.00
Name: 98BWMO37_d	Len:	129	Check: 4790	Weight:	1.00
Name: 99BW3932_1	Len:	129	Check: 5736	Weight:	1.00
Name: 99BW4642 4	Len:	129	Check: 6464	Weight:	1.00
Name: 99BW4745_8	Len:	129	Check: 6181	Weight:	1.00
Name: 99BW4754_7	Len:	129	Check: 5182	Weight:	
Name: 99BWMC16_8	Len:	129	Check: 4245	Weight:	1.00
Name: A2_CD_97CD	Len:	129	Check: 2625		1.00
Name: A2_CY_94CY	Len:	129	Check: 4125	Weight:	1.00
Name: A2D 97KR	Len:	129		Weight:	1.00
Name: A2G_CD_97C	Len:	129		Weight:	1.00
Name: A_BY_97BL0	Len:		Check: 1115	Weight:	1.00
Name: A_KE_Q23_A	Len:	129	Check: 9470	Weight:	1.00
Name: A_SE SE659		129	Check: 2684	Weight:	1.00
	Len:	129	Check: 4659	Weight:	1.00

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Len:

Name: CRF01 AE T

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129 Check: 5393 Weight:
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00BW0768_2 MAGRSEDS...DATLLQAVR IIKILYQSNP YPK.PEGTRQ ARKNRRRRRR
00BW0874_2 MAGRSGD... SDEALLQAVR IIKVLYQSNP YPK.PEGTRQ ARKNRRRRWR
00BW1471_2 MAGRSGD... SDEALLQAVR IIRILYQSNP YPKPEG.TRQ ARKNRRRRWR
00BW1616_2 MAGRSGDS...DEALLQAVR TIKILYQSNP YPE.PKGTRQ ARKNRRRRWR
00BW1686_8 MAGRSGDS...DEALLQAIK SIKILYQSNP YPE.PQGTRQ AQRNRRRRWR
00BW1759_3 MAGRSGD... NDEAVLQAIR IIKILYQSNP YPK.PRGTRQ AQKNRRRRWR
00BW1773_2 MAGRSGDS...DEALLQAVK IIKILYQSNP YPE.PKGTRQ ARKNRRRRWR
00BW1783_5 MAGRSGD... SDEAVLQAVR IIKILYQSNP YPK.PEGTRQ ARKNRRRRWR
00BW1795_6 MAGRSGD... GDAALLQAVR IIKILYQSNP YPK.PEGTRQ ARKNRRRRWR
00BW1811_3 MAGRSGD... SDEELLQVAR IIKILYQSNP YPE.PRGTRQ ARKNRRRRWR
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00BW1859_	DAALLOAAK LIKITYOSND VDE DYOMDO
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00BW1921_	
00BW2036	
00BW2063	TINITIONNY YEAR AREA TO THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TENTE OF THE TEN
00BW2087_	PIAGREGO SDEALLQAVR IIKILYOSNP VPK DECERDO ADVORTARIOR
00BW2127_	Z MAGREGD NDEARLQVVK IIKILYOSNP VPK DEGTED ADVINCE
00BW2276_	MAGREGO SDEALLOAVE TIKTIVOCHE VER TOTAL
00BW3819_;	MAGRIGO SDEDLLKAVR LIKTLYOCKE VEK STEEL
00BW3842_8	MAGREEDS DEALLRVVR IIKILYOSNP VPF DYCTERO ARVENTANCE
00BW3876_9	MAGREGOS. DEALLQAIR TIKILYOSNP VDE DEGEDO ADMINISTRA
00BW3876_3	MAGRIGOS. DEALLHAVR TIKILYXSNP YPE PKGTPO A PROTECTION
00BW3886_8	MAGREGOSDEALLQAVR IIKILYOSNP VDE HOCTEO
00BW3891_6	MAGRIGUS DEALLQAVR IIKILYOSNP YPK DEGUDO
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96BW11_06	A TALLIOSNE SEE DECATE A PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTECTION OF THE PROTE
96BW1210	TIPLIAND VALVE TIKILIYOSNP VDK DECUDO ADIOTE
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96BW16 26	COMMITTEE OF LIKILIYOSND VDF DECUDO ADTONO-
96BW17A09	MAGREGO ARKNERREWR
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98BWMC12_2	A THE TOTAL STATE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPE
98BWMC13 4	
98BWMC14 a	
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98BWM036 a	MAGRSGD SDEALLQAVR IIKILYQSNP YPK.PEGTRQ ARKNRRRWR MAGRSGV SDEALLQAVK IIKILYQSNP YPK.PEGTRQ ARKNRRRWR
98BWM037_d	MAGRSGV SDEALLQAVK IIKILYQSNP YPK.PEGTRQ ARKNRRRRWR MAGRSGD SDEALLQAVR IIKILYQSNP YPNNPEGSRQ AQRNRRRRWR
99BW3932 <u></u> 1	
99BW4642 4	
99BW4745_8	MAGRSEDSGDAALLQAVR IIKILYQSNP YPE.PKGTRQ ARKNRRRRWR MAGRSGDSDEALLOAVR IIKILYQSNP YPE.PKGTRQ ARKNRRRRWR
99BW4754_7	
99BWMC16_8	MAGRSGD NDAALLLAVQ TIKLLYQSNP YPK.PKETRQ ARRNRRRRWR MAGRSGDS DEALLOAVD TIKLLYQSNP YPK.PEGTRQ ARRNRRRRWR
A2_CD_97CD	MAGREGOSDEALLQAVR IIKILIYQSNP YPK.PEGTRQ ARRNRRRRWR MAGREGOSPDEDLIRAIR IIKILYQSNP YPKPRG.TRQ ARKNRRRRWR TAGREDOPDESLICAIR TIVILYQSNP YPKPRG.TRQ ARKNRRRRWR
A2_CY_94CY	TAGRSDD PDESLLOAIR TIKILYOCKE VERVE ARKNRRRWR
A2D97KR	MAGREGO PDEDLIRAVE ATRILYCOMP SPREAK AQRNRRRWR
A2G_CD_97C	MAGREGE TDEELLOADE TIKTI VOORD WEEDERG. SRQ ARKWRRRRWR
A_BY_97BL0	MAGRSGG TDAELLTAVR IIXFLYQSNP YPPPEG.TRQ ARKNRRRWR MAGRSGD SDEELLRAVR IIXILYKSNR YPTPRK.TRQ AXKNQRRRXR
A_KE_Q23_A	MAGRSGD SDEELLRAVR IIKILYKSNP YPTPRK.TRQ AXKNQRRRXR MAGRSGP GDEELLKAIR IIKILYOSNP YPKPKG.SRQ ARKNRRRRWR
A_SE_SE659	MAGRSGP GDEELLKAIR IIKILYQSNP YPKPRG.SRQ ARKNRRRRWR MAGRSGD SDEELLRAVR IIKILYQSNP YPKPRG.TRQ ARKNRRRRWR
A_SE_SE725	
A_SE_SE753	
A_SE_SE853	MAGRSGN SDEELLRAIR IIKILYQSNP HPKPRG.SRQ ARKNRRRRWR MAGRSGD SDEELLKAVP IIKILYQSNP HPKPRG.SRQ ARKNRRRRWR
A_SE_SE889	
A_SE_UGSE8	MAGRSGD SDEELLKAVR TIKILYQSNP YPQPKG.TRQ ARKNRRRWR MAGRSGN PDEELLRAID TIKILYQSNP YPQPKG.SRQ ARKNRRRWR
A_UG_92UG0	MAGREGN PDEELLRAIR IIKILYQENP YPQPKG.SRQ ARKNRRRRWR MARREGN PDEDLLKAYP IIKILYQENP GENERAL TRQ ARKNRRRRWR
A_UG_U455_	MARRSGN PDEDLLKAVR IIKLLYQSNP YPEPKG.TRQ ARKNRRRWR MAGRSGD SDEELLOWP IIKLLYDSNP CPNPRG.SRQ ARKNRRRWR
AC_IN_2130	MAGRSGD SDEELLQVVR IIKILYRSNP YPKPRG.TRQ ARKNRRRWR MAGRSGD SDETLLOAVK IIKILYRSNP YPKPRG.TRQ ARKNRRRRWR
AC_RW_92RW	
AC SE SE94	
ACC_RE_VI	
ACG_BE_VI1	MAGRSGA SDEELLRAVR IVKILYQSNP YPKPEG.TRQ ARKNRRRRWR MAGRSGD SDEXLLKAVR LIVER YOUNG
AD_SE_SE69 AD_SE_SE71	
AD_SE_SE/1 ADHK_NO_97	
· 10 TW - 10 - 2 /	MAGRSGD RDADLLKAVR IIKILYQSNP YPE.PTGSRQ ARRNRRRWR
	NANAVARAN Succes

אחצ כים אאז	MAGDGGD				
ADK_CD_MAL	MAGRSGD	SDEDLLRAIR	LIKILYQSNP	PPNTEGTTRQ	ARRNRRRRWR
AG_BE_VI11	MAGRIGS	TDEETPKAAK	TIKILYQSNP	YPSSEG.SRO	ARKNIPPPPM
AG_NG_92NG	MAGRSGD	ADEELLRVTR	LIKILYQSNP	YPPPEG. TRO	ARKMPDDDMD
AGHU_GA_VI	MAGRSGA	SDEELLKAVR	: IIKILYQSNP	FPE.PTGTRO	ARRNTRRRUM
AGU_CD_Z32	MAGRSGD	SDEETLKIAL	IIKILYQGNP	YPPPEG.TRQ	ARRNRRRRWR
AJ_BW_BW21	MAGRSGD	NDEOLPPAIR	IIKILYKSNP	YPKPNG.SRO	ARRNRRRRWR
B_AU_VH_AF	MAGRSGD		LIKFLYQSNP	PPSPEG.TRQ	ARRNRRRRWR
B_CN_RL42_	MAGRSED		LIKLLYQSNP	LPSPEG. TRO	ARRNRRRRWR
B_DE_D31_U	MAGRSGD		LIKFLYQSNP	PPSPEG. TRQ	ARRNRRRRWR
B_DE_HAN_U	MAGRSGD		LIKFLYQSNP	PPSNEG. TPT	ARRNRRRRWR
B_FR_HXB2_	MAGRSGD		LIKLLYQSNP	PPNPEG.TRQ	ARRNRRRRWR
B_GA_OYI_M	MAGRSGD		LIKFLYQSNP		ARRNRRRRWR
B_GB_CAM1_	MAGRSGD		LIKLLYQSNP	LPSSKG.TRQ	ARRNRRRRWR
B_GB_GB8_A	MAGRSGD		FIKFLYQSNP	PPNPKG.TRQ	ARRNRRRRWR
B_GB_MANC_	MAGRSGD		LVKFLYQSNP	PPSPEG. TRQ	ARRNRRRRWR
B_KR_WK_AF	MAGRSGD		IIKFLYQSNP	LPEPEG. TRO	ARRNRRRRWR
B_NL_3202A	MAGRSGD		LIKFLYQSNP	PPSPEG.TRO	ARRNRRRRWR
B_TW_TWCYS	MAGRSGD		LIKLIYQSNP	PPNPEG. TRO	ARRNRRRRWR
B_US_BC_L0	MAGRSGD		LIKLLYQSNP	PPNPEG.TRO	ARRNRRRRWR
B_US_DH123	MAGRSGE		LIKLLYQSNP		ARRNRRRRWR
B_US_JRCSF	MAGRSGD		LIKFLYQSNP		ARRNRRRRWR
B_US_MNCG_	MAGRSGD		LIKFLYQSNP	PPSSEG.TRO	ARRNRRRRWR
B_US_P896_	MAGRSGD		LIKFLYQSNP	PPSLEG. TRO	ARRNRRRRWR
B_US_RF_M1	MAGRRGD		LIKSLYQSNP	PPSPEG. TRO	ARRNRRRRWR
B_US_SF2_K	MAGRSGD	SDEELLRTVR	LIKLLYQSNP		ARRNRRRRWR
B_US_WEAU1	MAGRSGD	SDEDLLKTVR	LIKILYQSNP	PPSPEG. TRO	ARRNRRRRWR
B_US_WR27_	MAGRSGD	SDEELLQKV.	LIRFLYQSNP	PPSSEG. TRQ	ARRNRRRRRWK
B_US_YU2_M	MAGRSGD	SDEDLLRTVR	LIKVLYQSNP	PPSSEG. TRO	ARRNRRRRWR
BF1_BR_93B	MAGRSGD	SDTELLKAVS	YIKILYQSNP	LPKPKG. TRQ	ARRNPRPDWD
C_BR_92BR0	MAGRSGD		IIKILYQSNP	YPK, PEGTRO	ARRNRRRRWR
C_BW_96BW0	MAGRSGD	SDEALLQAVR	IIKILYQSNP	YPK.PEGTRQ	AMDMDDDDMD
C_BW_96BW1	MAGRSGD	NDEALLQAVR	IIKILYQSNP	YPK. PEGTRQ	<b>DEKNIDDDDIND</b>
C_BW_96BW1	MAGRSGD	SDEALLQAVR	IIKILYQNNP	YPK. PEGTRQ	ADKNIDDDDWD
C_BW_96BW1	MAGRSEDS		IIKILYQSNP	YPE.PKGTRQ	<b>ADKAIDDDDWD</b>
C_ET_ETH22	MAGRSGD	SDEELLKAVR	IIKILYQSNP	YPT.PEGTRQ	ADDNIDDDDID
C_IN_93IN1	MAGRSGDS	.DEALLQAVR	IIKILYQSNP	YPE.PKGTRO	ADKNIDDDDWD
C_IN_93IN9	MAGRSGDS	.DEELLKAVR	IIKILYQSNP	YPE PRGTRO	ADKMDDDDDMD
C_IN_93IN9	MAGRSGDS	.DEALLRAVR	IIKILYQSNP	YPE, PRGTRO	APKNIDDDDWD
C_IN_94IN1	MAGRSGDS	.DEALLKAVR	IIKILYQSNP	YPE. PRGTRO	ANKNODDDDDD
C_IN_95IN2	MAGRSGDS	.DEALLKAVR	IIKILYQSNP	YPE. PRGTRO	ADKMODDOMA
CRF01_AE_C	MAGRSGN	TUEDLLOAVR	IIKILYOSND	VDDDDC TDA	ADIGIDADATA
CRF01_AE_C	MAGRSGS	TUEDLLRTVR	IIKILYOSNP	YPPARG TPO	V D N VID D D MAND
CRF01_AE_C	THORDOS	IDERTIFICATION	ALKILFOSNP	YPSSEG TPO	λογπρορικιο
CRF01_AE_T	MAGRAGA	IDEETPKAAK	TINITAOSND	YPSSEG TRO	מוזמממממאאמי
CRF01_AE_T	MAGRAGA	TDEETTKVAK	IIKVLYOSNP	YPSSEG TRO	TOKNODDOWN
CRF01_AE_T	MAGRAGA	TUEELLRAVR	IINILYOSNP	VPSSEGGTPA	TOVATODODINO
CRF01_AE_T	MAGRAGA	TUEETPRAAK	IIKLLYESNP	PPSSEG TPO	TOVATODDDIA
CRF01_AE_T	MAGRAGA	TOERPPKAAK	IIKILYOSNP	FPSSEG TPO	TEDENTEDENT
CRF01_AE_T	MAGRAGA	TDEELLRAVK	IINILYOSNP	LPSSEG SEC	TOKNIDDDDDIND
CRF02_AG_F	MAGRAGD	<b>WDFFTTKAAK</b>	TIKILYOSNP	YPPPEG TPO	מיזמממממאמים
CRF02_AG_F	MAGRSAD	ADEELLRVVR	IVKILYOSNP	YPDDEG TOO	ADVAMPORE
CRF02_AG_G	THORSOD	WINDEPLIKATK	TIKILYOSND	YPKPEG TPO	πυσασπασα
CRF02_AG_N	THOROGO	ANDPENTKAAK	TIKITAOSND	YPPPEG TPO	משממממאעמיי
CRF02_AG_S	THOROGIV	ADPEDTKWAK	TIKILYOSNP	YPPPEC TPA	ΛΕΚΝΤΟΡΟΡώπο
CRF02_AG_S	MAGRAGD	ADEGLLRAVE	IIRILYOSNP	YPPPEG SPO	προπροσώσ
CRF03_AB_R	MAGRSGD	SDEELLKTIR	LIKFLYQSNP	DDSDEG TOO	WAXNAKKKMK
CRF03_AB_R	MAGRSGD	SDEDLLKTIR	LIKFLYQSNP	DDNDEG TRO	ALLEN KKKKWK
CRF04_cpx_	MAGRSGN	IDEDLFKAAR	AIKILYQSNP	VDMNDOCODO	ARRINKKKRWR
	MAGRSG	SNEDLLGSVG	IVKILYQSNP	ADM DANGADAS	ARKNKKKRWR
CRF04_cpx_	CDGNDHII	TUBULLKAVG	TVKTI.VOQNID		7 DD1 DD D D D D D D D D D D D D D D D D
CRF05_DF_B	MAGRSGD	RDEDLLKAVP	LIKTLYOCKE	TEMMINGTRO	AKKNKKRRWR
<b></b>	•			TESEEG.TKQ	AKKNKKRRWR

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CRF05_DF_B MAGRSGD... RDEDLLKAVR LIKFLYQSNP PPRPEG.TRQ ARRNRRRRWR
  CRF06_cpx_ MAGRSGD... SDDRLLLAVR IIKILYQSNP YPKPNG.SRQ ARRNRRRRWR
  CRF06_CPX_ MAGRSGD... NDEQLLLAVR IIKILYQNNP YPKPNG.GRQ ARRNRRRRWR
  CRF06_CPX MAGRSGD... NDEQLLLAVR TIKILYQSNP YPKPSG.SRQ ARRNRRRRWR
  CRF06_cpx MAGRSGD... SDEQLLWAVR VIKILYQSNP YPKLSG.SRQ ARRNRRRRWR
  CRF11_cpx_ MAGRSGD... NDEQLLTAVK IIKILYQSNP QPNPTG.SRQ ARRNRRRRWR
 CRF11_cpx MAGRSGD... SDAQLLAAAR IIKILYQSSP YPKPAG.TRQ ARRNQRRRWR D_CD_84ZR0 MAGRSGD... SDEDLLTAVR LIKILYQSNP PPSPEG.TRQ ARRNRRRRWR
 D_CD_ELI_K MAGRSGD... SDEDLLKAVR LIKFLYQSNP PPSPEG.TRQ ARRNRRRRWR
 D_CD_NDK_M MAGRSGD... SDENLLKAIR LIKFLYQSNP PPSPEG.TRQ ARRNRRRRWR
 D_UG_94UG1 MAGRSGD... RDEELLQAVR LIKILYQSNP PPSPEG.TRQ ARRNRRRRWR
 F1_BE_VI85 MAGRSGD... SDTELLKAVK CIKILYQSNP YPKPEG.TRQ ARRNRRRRWR
 F1_BR_93BR MAGRSGD... SDQELLKAVR YIKILYQSNP YPKPEG.TRQ ARRNRRRRWR
 F1_F1_F1N9 MAGRSGD... SDTELLKAVK YIKILYQSNP YPSPDG.TRQ ARRNRRRRWR
 F1_FR_MP41 MAGRSGD... NDEELLRAVR AIKILYQSNP YPKPEG.TRQ ARRNRRRRWR
 F2_CM_MP25 MAGRSGD... RDEELLKAVR YIKILYQSNP YPKLEG.TRK ARRNRRRRWR
 F2KU_BE_VI MAGRSGD... SDEELLKAVR LIKILYQSNP YPKPEG.TRQ ARRNRRKRWR
 G_BE_DRCBL MAGRSGS... TDEELLTAVR IIKLLYQSNP SPPPEG.TRQ ARRNRRRRWR
 G_NG_92NG0 MAGRSGD... PDEELLRAVR IIKTLYQSNP YPSPAG.TRQ ARKNRRRRWR
 G_SE_SE616 MAGRSGS... TDEELLRAVK AIKILYQSNP YPPPEG.TRQ ARRNRRRRWR
 H_BE_VI991 MAGRSGD... NDEGLLRACR IIRLLYQSNP YPE.PAGTRQ AQRNRRRRWR
 H_BE_VI997 MAGRSGA... GDEQLPQVCK IIKIIYQSNP YPE.PAGTRQ ARRNRRRRWR
 H_CF_90CF0 MAGRSGA... SDTELLQVCK IIKILYQSNP CPE.PTGTRQ ARRNRRRRWR
 J_SE_SE702 MAGRSGD... NDDQLLLAVR IIKILYQSNP YSKPNG.SRQ ARRNRRRRWR
 J_SE_SE788 MAGRSGD... SDDQLLLAVR LIKILYQSNP YPKPNG.SRQ ARRNRRRRWR
 K_CD_EQTB1 MAGRRGD... SEQQLLTPVR IIKILYQSNP YPKPEG.TRQ ARRNRRRRWR
 K_CM_MP535 MAGRRGD... PDEQLLTTVR TIKILYESNP YPNLEG.SRQ TRRNRRRRWR
 N_CM_YBF30 MAGRSGVN...DEELLRAVR VIKILYQSNP YPNSKG.TRQ ARRNRRRRWR
 O_CM_ANT70 MAGRSED....DQ.LLQAIQ IIKILYQSNP QPSPRG.SRN ARKNRRRRWR
 O_CM_MVP51 MAGRSEE....DQQLLQAIQ IIKILYQSNP CPTPAG.SRN ARKNRRRRWR
 O_SN_MP129 MAGRSDG... .DQPLLRAIQ IIKILYQSNS HTSPTG.SRS ARRNRRRRWR
 O_SN_MP130 MAGRSDG....DQPLLRAIQ IIKILYQSNP HPSPTTGSTS ARRNRRRRWR
 U_CD__83C MAGRSGE... SDEELLRAVR IIKILYQSNP PPNPEG.TRQ ARKNRRRRWR
 00BW0762_1 ARQRQIHSIS ERILSTVLGR PAEPVPFQLP PIERLHIGCS ESGGTSGTQQ
 00BW0768_2 ARQRQINSIS ERILSTCLGR PAEAVPLQLP PIERLHIGCN ESGGTSGTQQ
 00BW0874_2 ARQRQINSIS GRILSACLGR PTEPVPFQLP PIERLHINCS ENGGTSGTQQ
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 00BW1616_2 ARQRQIHSIS ERILSACLGR SAEPVPFQLP PIERLHIDCS ESSGNSG...
 00BW1686_8 ARQRQIHSIS ERILSTCLGR SAEPVPLQLP PIERLHIDCS ESGGTFGTQQ
 00BW1759_3 ARQRQIDSIS ERVLSTVLGR PTEPVPFQLP PIERLDIGDS ESGGTSGTER
00BW1773_2 ARQRQIREIS QRILSTYLGR PAEPVPLLLP PIERLHIDCS ESGGTSGTQQ
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00BW1921_1 ARQRQINSIS ERILTTCLGR SEEPVPLQLP PIERLNIGGS ESSGTSGTQQ
00BW2036_1 ARQRQIDSIS ARILSTCLGR PAEPVPFQLP PIERLNIGDN ESGGTSGTQQ
00BW2063_6 ARQKQIHSIS ERILSTCLGR SEEPVPLLLP PIERLRIGDS ESSGTSGTQQ
00BW2087_2 ARQREIHSIS ERILSTCLGR SAEPVPFQLP PIERLNINCS EGSGTSGTQQ
00BW2127_2 ARQRQIHSIS ERILSTCLGR STEPVPFQLP PIERLNIGDS EGSGTSGTQQ
00BW2276_7 ARQRQIHSIS ERILSTCLGR PAEPVPLQLP PIERLNIGDS EGGGTSGTQQ
00BW3819_3 ARQRQIHSIS ERILSACLGR PAEPVPFQLP PIERLNIGDS EGGGTSGTQQ
00BW3842_8 ARQRQINSIS ERILSTCLGR SAEPVPLQLP PIERLNIGDS ESGGTSGTQQ
00BW3871_3 ARQRQINSIS ERILSTCLGR SAEPVPLQLP PIERLHIGDS ESGGTSGTQQ
00BW3876_9 ARQKQIHSIS ERILSACLGR SAEPVPLQLP PIERLHIGGS ESGGTSGTQQ
00BW3876_9 ARQKQINSIS ERILSACLGR SAEPVPLQLP PIERLHIGGS ESGGTSGTQQ
00BW3886_8 ARQRQINSIT ERILSDCLGR SAEPVPLQLP PIERLHIGDS ESGGTSGTQQ
00BW3891_6 ARQRQIHSLS ERILSTCLGR SAEPVPLQLP PIERLHIUDS ESGGTSGTQQ
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00BW3891_6 ARQRQIHSLS ERILSTCLGR SAEPVPLQLP PLERLHIGDS ESGGTSGTQQ
00BW3970_2 ARQKEIHSLS ERILSTCLGR PAEPVPLQLP PLERLHIDCS ESGGTSGTQ.
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00BW5031_1	ARQRQIHSIG	ERILSTCLGR	SAEPVPLQLP	PLERLHIDCS	
96BW01B21	ARQRQIHSIS	ERILITICLGR	FTEPVPFQLP	PIERLHIGDS	ESGGTSGTQQ
96BW0407	ARQRQIHSIS	ERILSTCLGR	PTEPVPFQLP	PIERLHIDCS	ESSGASGTQR
96BW0502	ARQRQIHSLS	ERILSACLGR	PAEPVPFQLP	PIERLHIDCS	KSVGTSG
96BW06_J4	ARQRQINSIS	ERILSTCLGR	SAEPVPFQLP	PIERLHIGGS	ESGGTSGTQQ
96BW11_06			SAEPVPFLLP		ESSGTSGTQQ
96BW1210			${\tt PAEPVPLQLP}$		ENSGTTGTQQ
96BW15B03			${\tt PEEPVPFQLP}$		ESGGTSGTQQ
96BW16_26			${\tt PAEPVPLQLP}$		ESGGTSGTQ.
96BW17A09			${\tt PTEPVHLPLP}$		EDCEPTGTEQ
96BWM01_5			PAEPVPFLLP		ESSGTSGTQQ
96BWM03_2			${\tt PTEPVPFQLP}$		ESSGTSGTQQ
98BWMC12_2			${\tt SAEPVPLQLP}$		ESGGTSGTQQ
98BWMC13_4			STEPVPFLLP		ESSGTSGTQQ
98BWMC14_a			PAERAPFQLP		ESGGTPG
98BWM014_1		ERILSTVLGR		PIERLNINCS	ESSGTSGTQQ
98BWM018_d		ERILSTCLGR		PIERLHIDCS	ESSGTSGTQH
98BWMO36_a		ERILSSCLGR		PIERLHIGDS	ESGGTYGTQQ
98BWM037_d			SAEPVPLQLP	PIERLHIADS	KGGGTSGIQQ
99BW3932_1			STEPVPFQLP	PIERLNIGDS	ESGGTYGTLQ
99BW4642_4			SAEPVPLQLP		ESSGTSGTQQ
99BW4745_8	ARQNQIRAIS	KRILSTCLGR	PAEPVPLQLP	PLERLHIGDS	ESGGTSGTQQ
99BW4754_7	ARQRQIHSIS	ERILSNCLGR	PAEPVPFQLP	PIEGLHIDCN	ESSGTSGTQQ
99BWMC16_8	ARQRQIDSIS	QRILSDCLGG	PAEPVSFQLP	PIERLNIDCN	ESGGTSGTQQ
A2_CD_97CD	ARQRQIDSIS	ERILSTCLGR	PTEPVPLQLP	PLERLHLDCS	EDCGTCGTQQ
A2_CY_94CY	ARQRQIDSIS	ERVLRTCLGR	PTEPVPLQLP	PLERLHIDCS	EDCGTSGTLQ
A2D97KR	ARQRQIRAIS	ERILSACLGR	PTEPVPLQLP	PLERLHLDCS	EDCGTSGTQQ
A2G_CD_97C			PTEPVPLLLP		EDGGTAETQQ
A_BY_97BL0	ARQRQINSIS	KRIFSTCXGR	SXEPVSLQLP		EDCXTSETQQ
A_KE_Q23_A			PTEPVPLQLP		EDCGTSGTQQ
A_SE_SE659			STEPVPLQLP		EDCGTSGTQQ
A_SE_SE725			SEEPVPLQLP		DDCGTSGTQQ
A_SE_SE753			STEPVPLQLP		EDCGTSGTQQ
A_SE_SE853	ARQRQIDSIS		SAEPVPLQLP	PLEGLHLDCC	EDCGTSGTEG
A_SE_SE889	ARQKQIDSLS		PQEPVPLLLP	PIERLHLDCS	EDCGTSGTQQ
A_SE_UGSE8			SEEPVPLQLP	PLERLHIDCH	EDCGTSGTG.
A_UG_92UG0			PAEPVPLQLP		EDCGTSGTQQ
A_UG_U455_	ARQRQIDSLS	ERILSDCLGR	PAEPVPLQLP	PIERLRLDCS	ESCGTSGTQQ
AC_IN_2130 '	ARQRQIDSIS	ERILSTFLGR	SAEPVPLQLP	PLERLHLDCQ	EDCGTSGTQQ
AC_RW_92RW	ARQRQIHSIS	ERILSTCLGR	PTEPVPFQLP	PIERLTIDCS	EDGGTSGTQQ
AC_SE_SE94	ARQRQIDSIS	ERILSTCLGR	SAEPVPLQLP	PLERLHLD	SGTQQ
ACD_SE_SE8	ARQRQIDSIS	QRILSTCLGR	SEEPVPLQLP	PLERLNLDCC	EDCGTSGTQG
ACG_BE_VI1	ARQRHIHSLS	ERILCTCLGR	SEEPVHLPLP	PLEGLTLDCN	ESSGTSGTEG
AD_SE_SE69	ARQRQINSIG	ERILSTYLGR	SQEPVPLQLP	PLERLTLNCI	EDCGTSGTQG
AD_SE_SE71	ARQNQIDSIS	KRILSNCLGR	PAEPVPLQLP	PLERLNLNCS	KDCGTSGTQG
ADHK_NO_97	ARQXQIHSIG	ERVLATCMGR	PAEPVPLQLP	PLERLTLDSS	EDCDIAGKQG
ADK_CD_MAL	ARQRQINSIG	ERILSTYLGR	PEEPVPLQLP	PLERLTLNCN	EDCGTSGTQG
AG_BE_VI11	ARQRHIQAIS	RRILDACLGR	PAEPVPLQLP	PLERLSLDCS	KDIGTSGTQR
AG_NG_92NG	ARQRQISALS	ERILSTCLGR	PAEPVPLQLP	PIERLSLDCS	EDSRTPETQQ
AGHU_GA_VI	ARQKQIHSIG	ERVLATYLGR	PAEPVPLQLP	PLERLTLDCS	EDCGTSGEKG
AGU_CD_Z32	ARQRQIHSLG	ERILTTCLGR	STEPVPFLLP	PIERLRIDCS	EDRGDSDPQG
AJ_BW_BW21	ARQNQIDSIS	ERILSTCLGR	PTEPVPFQLP	PIERLRLDCS	EDCGHSGTQG
B_AU_VH_AF	ARQRQIRQIS	GWILSTYLGR	PAEPVPLQLP	PLERLTLDCS	KDCGTSGTQG
B_CN_RL42_	ARQRQIREIS	DRILVTYLGG	STEPVPLQLP	PLERLTLDCS	KDCGTSGTQG
B_DE_D31_U	QRQRQIQSIS	ERILSTYLGR	PEQPVPLPLP	PLERLTLDCS	EDCGTSGTQG
B_DE_HAN_U	ERQRQIRSIS	ERILSTFLGR	PAEPVPLQLP	PLERLTLDCS	EDCGNSGTQG
B_FR_HXB2_	ERQRQIHSIS	ERILGTYLGR	SAEPVPLQLP	PLERLTLDCN	EDCGTSGTQG
B_GA_OYI_M	ERQRQIRKIS	GWILSTYLGR	SAEPVPLQLP	PLERLNLDCS	EDCGTSGTQG
B_GB_CAM1_	ERQRHIRAIS	NWILSTHLGR	PAEPVPLQLP	PLERLTLDCS	KDCGTSGTQG
B_GB_GB8_A	ARQRQIHQIG	EWILSAFLGR	PAEPVPLQLP	PIERLTLDCD	EDCGTSGTQG
B_GB_MANC_	GRQRQIQSLS	AWILSTRLGR	STQPVPLQLP	PLERLTLDCS	EDCGTSGTQG

B_KR_WK_AF	RRQWWIQSLS	GWILNTHLGR	PAEPVPLQLP	PLERI.TI.DOX	FECOMOGNOG
B_NL_3202A	PUČUČTUŽTO	PKTTPLATICE	SARPVPLOLD	יייט או נותי דום עודם	Theemanne
B_TW_TWCYS	<b>アレグレグエビエブ</b>	GMTTRNATGE	PARPVPIOLD	מסת זייי זמק. זמ	TD CCMCCM-
B_US_BC_LO	ERQRQIRSIS	ERILSTFLGR	SAEPVPLQLP	DI EDI MI COM	EDCGTSGTQG
B_US_DH123	QRQRQIQSIS	GWILSNHLGR	PADAVPLQLP	DI.PDI.TT DOM	EDCGTSGTQG
B_US_JRCSF	ERQRQIRTIS	ERILSTYLGR	PAEPVPLQLP	PI.PPI WI DON	EDCGTSGTQG
B_US_MNCG	ERORHIRSIS	AWILSNYLGR	PAEPVPLQLP	P ODI MI DOG	EDCGTSGTQG
B_US_P896	EROROIRSIS	ERTLGTFLGR	FEEPVPLPLP	P. QKLTLDCS	EDCGTSGTQG
B_US_RF M1	EROROIRRCS	EWILDTYLGR	SVDPVQLQLP	PLEDIE EL DOC	EDCGTSGTQG
B_US_SF2 K	EROROIRSTS	GWTT.STVT.GD	SAEPVPLQLP	PLERLTLDSS	EDCGTSGTQG
B US WEAU1	EROROTRKIS	CMITATIVICO	PTEPVPLPLP	PLEKTITDCS	EDCGNSGAQG
B US WR27	ROROTOSTIS	AMITEMILIER	E TEEA APPAPE	PUDKTIPDCK	EDCGTSGTQG
B_US_YU2 M	EROROTESTS	GMT.T.CMVT.CD	PAEPVPLQLP	PLERLTLDCS	EDCGTSGTQG
BF1 BR 93B	AROROTRETS	EDIT CCCT CD	PTEPVPFQLP	PLERLTLDCN	EDCGTSGTQG
C_BR 92BR0	APOPOTUCES	ERILOSCUGE	PEEPVPLQLP	PLERLHINCS	EDCGQGTEEG
C BW 96BW0	APOPOTUCE C	ERILSTCVGR	PAEPVPFQLP	PIERLNINCS	ESGGTSGTQQ
C_BW 96BW1	VECKOTHETE	ERILSTCLGR	PTEPVPLQLP	PIERLHIDCS	ESSGASGTQQ
C BW 96BW1	MODOLHOLO	ERILSTCLGR	SAEPVPFLLP	PIERLHISDS	ESGGTSGTQQ
C BW 96BW1	THE TOTAL STATES	PKITPLCTCK	PARPVPLOLD	DIFFITTOO	TRYCOMMONA
C ET ETH22	MINOU OTDOTO	TKTT2TCTCK	PEEPVPFOLD	DIFFINITORS	DOCOMOCHO
	WIGNETHTO	PKITZNATGK	PAEPVPLOUP	DI-EDI-MI-DCC	EDCOMOGMOO.
C_IN_93IN1 C IN 93IN9	WIGNOTURE?	PKITISTCIGK	STEPVPLOUP	DIRRITTAGE	PCCCMCCMCC
	WIND TO TO	PRITISACIGE	PAEPVPIOND	DITEDITUTORO	DOCOMOCHO
C_IN_93IN9	TILL TO TO	PRITISICION	SAEPVPLOLP	PI.RRI.HTCCC	FCCCMCCMOO
C_IN_94IN1	WIGNOTIDED	PKITISACIGR	PAEPVPLOLD	DIRDIUTOCO	TOCOCOCOCO
C_IN_95IN2	TITOTO TO TO	PKINSIFIGR	PAEPVPIOLD	DIFDIUTOGO	TICACMOCMES
CRF01_AE_C	TOTOTOTO	PKILLAUCACK	STEPVPLOTD	DI PDI UTDAC	EDGGGGGGGG
CRF01_AE_C	THE THE THE THE	PKTTPLCTCK	SPEPVPLOLD	סמת זנו זמים. זמ	TD COMO OMO O
CRF01_AE_C	PINONOTATIO	PKITISACLIGR	SAEPVPLOLD	DT.PDT.UT.DCC	ED COMO CHO C
CRF01_AE_T	TUČIČTIVATO	PKILLICIGK	STEPVPLOT	PLEBITION	PDCCMCCMCC
CRF01_AE_T	<b>PINOUĞIKHID</b>	EKILNACVGR	STEPVPLOLD	DI EDI UI DAC	ED COMOCHO o
CRF01_AE_T	<b>TUĞUĞIKHI</b> Ş	EKILSTCLGR	STEPVPLOTA	PI.EPI.HI.DCC	PDCCMCcmcc
CRF01_AE_T	ENGINETY S	PRITISSCACK	STEPVPLPLD	DITEDITUTOR	DDCCMCCmcc
CRF01_AE_T	TUČUČTOVIO	PRITISICION	STEPVPLOLD	DIMPOLATIONS	TIDOCOMOCHO
CRF01_AE_T	THIGH GARAGE	PKTTPACTRK	STEPVSLPLD	DITEDITEDIC	DDCCMccmcc
CRF02_AG_F	<b>WYNYTO</b>	ERFUSTCLGR	SAEPVPLOTIP	PTERLCINCE	FOOGMOGRAA
CRF02_AG_F	TUČUČTIVITO	OKILSTCLGR	SAEPVPLOLD	DITEDICTION	TOCOMOGRA
CRF02_AG_G	LINGUATIONS	PKTTQLCTCK	PEEPVSFOLD	DI PDI MI DOC	DDGGMGGGG
CRF02_AG_N	LINGUÁT LUNTO	PETTPLICTER	SARPVPLOLD	DTEDIMIDAG	TD CCTCCTC
CRF02_AG_S	ARQRQIRAIS	ERILSTCLGR	SAEPVPLQLP	DIEDIDIDOCS	EDCGTSGTQL
CRF02_AG_S	ARQRQVRAIS	ERILSTCLGR	PAEPVPLPLP	PIERT OF DOC	EDCGTSGTQG
CRF03 AB R	ERORHIHSIS	EOILSTYLGR	PEEPVLLHLP	PIERICIDUS	EDSGTSGTQQ
CRF03_AB_R	ERORHIHSIS	ORILSTYLGR	PEEPVPLHLP	PLEDIELDOCS	EDCGTSGTQG
CRF04_cpx_	AROKOIHSLS	ERILATYLGR	PAEPVPLQLP	PLEKTILDCS	EDCGTSGTQG
CRF04_cpx_	AROKOIHSIS	ERVI-ATVI-CP	PAEPVPLQLP	PLEKTITNCS	EDCGTSGDKG
CRF04_cpx_	ARONRIHSTS	ERTLAACLCD	PAEPVPLQLP	PTEKTITNCS	EDCGTSGEKG
CRF05_DF_B	AROROTNSTG	ERLL STVICE	EMEDANI OF D	PIEKTITDCS	EDCGTSGDKG
CRF05_DF_B	AROROTESTA	DRIVDTVICE	SEEPVPLQLP	PLERLNLNCS	EDCGTSGTQG
CRF06_cpx_	ARONOTOSTS	ERVLSTCLGR	PEEPVPLQLP	PLERLNLNCS	EDCGTSGTQG
CRF06_cpx_	ARONOTOSTS	ERILSTCLGR		PIERLRLDCS	EDCGNSGTQG
CRF06_cpx_	AROKOTDETE .	ENTISICIGE	PIEDADLOT	PIERLRLDCS	
CRF06_cpx_	APONOTDETE	ERIL COCK CR	SAEPVPLQLP	PIERLRLDCS	EDCGNSGTQG
CRF11_cpx_	W DOMOTDOTO	ERILSSCLGR	SEEPVPLQLP	PIERLRLDCT	EDCGNSGTQG
CRF11_cpx_	WYGNGTD919	OKTUSDCTCK	SEEPVPLOLD	DTFDIUTIOCC	PDOGMDGMAG
D_CD_84ZR0	W/ANATHD2T2	OKIDSICIGK	SEEPVPLPI.P	PTRRIUTATO	PDCCMCCCCC
	MONTHOLG	PKITPITICK	SEEPVPLOLP	PLEE THEMOS	PDCCmcamaa
D_CD_ELI_K	WINTYDIA	EKTTGLATCK	PAEPVPLQLP	PLERLNLNCS	EDCRTSGTQG
D_CD_NDK_M	WANTEDIA	PKTICIFICK	PEEPVPLOLP	PLERLNLNCS	EDCGTSGTOG
D_UG_94UG1	ARQRQIHSIG	ERIISTYLGR	FEEDVPLOUP	PLERLNLNCS	EDCGTSGTOG
F1_BE_VI85	ARQRQIRALS	DRILSSCLGR	SEEPVPLOLD	PLERLHINCS	EDCGOGPEEG
F1_BR_93BR	ARQRQIREIS	DRILSSCLGR	PARPVPLOLD	DI.PDI.UTMOC	EDGGGGTTTTG
F1_FI_FIN9	ARQRQIRAIS	ERILSSCLGR	LEEPVPI.OLD	DI.EDI.UTMCC	PDGGGGGGGGG
F1_FR_MP41	AKQKQIRSIS	ERILVACLGR	PEEPVPLQLP	PLERLHINCS	KDCGOGTNEG
				_	

F2_CM_MP25 F2KU_BE_VI G_BE_DRCBL G_NG_92NG0 G_SE_SE616 H_BE_VI991 H_BE_VI997 H_CF_90CF0 J_SE_SE702 J_SE_SE788 K_CD_EQTB1 K_CM_MP535 N_CM_YBF30 O_CM_ANT70 O_CM_MVP51 O_SN_MP129 O_SN_MP130 U_CD83C	ARQRQIHSIS ARQRQIHSIS ARQRQIHSIS ARQRQISAIS ARQRQIHSIG ARQRQIRAIS ARQRQIREIS ARQNQIDSIS ARQNQIDSIS ARQRQIREIS ARQRQIREIS ARQKQISSIS ARQRQIRAIS RRQAQVDTLA RRQAQVDTLA KRQAQIDTLA	QRILSTCLGR ERILSTCLGR ERILSACLGR ERILTAYLGR ERILTDCLGR ERILTSCLGR ERILSSCLGR ERILSSCLGR QRVLSSCLGR ERLLSACLGR ERILSSCLGR ERILSSCLGG ARVLATVVHG ARILATVVHG ARILATVVHG	PAEPVPFQLP PEEPVPLQLP PAEPVPLQLP PAEPVPLQLP PPEPVTLQLP PAEPVPLQLP PAEPVPLQLP STEPVPLQLP SAEPVPLQLP SAEPVPLQLP PPEPVDLPLP PQNNNIVDLP PQDNNLVELP PQDNNLVELP	LLEKLHINCS PLERLNLDCS PLERLHLDCS PLEGLSLDCS PLERLTLDCS PLERLTLDCN PLERLTLDCS PIERLRLDCS PIERLRLDCS PIERLRLDCS PIERLRLDCD PIERLSLNCD PIERLSLNCD PLEGLSIRDP PLEGLSIRDP PLEGLSIRDP PLEGLSIRDP PLEGLSIRDP	EDSREGAEGE EDGGTSGTQQ KDGGTSGTQQ EDSGTSGTQQ EDCGTSGEKG KDCGTSGEKG EDCGTSGEKG EDCGNSGTQG EDCGNSGTQG EDSGQGTEGE EDPGKGTEGG EDSGTPGTES EGDQLSEAWT EADRLPGTGT DGDQPSGTWT
	101		129		
00BW0762 1	POGTPEGMGN	P			
00BW0768 2		P			
00BW0874_2	SQGTTEGVGN				
00BW1471_2		P			
00BW1616_2		P			
00BW1686_8		P			
00BW1759_3		P			
00BW1773_2		P			
00BW1783_5	SQGTTEGVGN	P	• • • • • • • • •		
00BW1795_6		P			
00BW1811_3		P			
00BW1859_5		P			
00BW1880_2	SQGTPEGVGN	P	• • • • • • • • •		
00BW1921_1		P			
00BW2036_1		P			
00BW2063_6	SQGTPEGVGN	P	• • • • • • • • • • • • • • • • • • • •		
00BW2087_2	POGITEGVGN	P	• • • • • • • • •		
00BW2127_2		P			
00BW2276_7 00BW3819 3		P			
		P			
00BW3842_8		P			
00BW3871_3	SOCILEGICA	P	• • • • • • • •		
00BW3876_9 00BW3886 8		P			
00BW38891 6		P			
00BW3891_6 00BW3970 2		P			
00BW5031_1		P			
96BW01B21		P			
96BW0407		P			
96BW0502		P			•
96BW06 J4	SOGPTEGVGS	P	• • • • • • • • •		
96BW11 06	SOGTPEGVGN	P	• • • • • • • •		
96BW1210	SOGTTEGVGS	P	• • • • • • • • •		
96BW15B03		P		•	•
96BW16 26		P			
96BW17A09	SOGATEGVGS	P	• • • • • • • • •		
96BWMO1 5	SOGTPEGUGN	P	• • • • • • • •		
96BWM03 2		S			
98BWMC12_2		P			
98BWMC13 4		P			
98BWMC14_a	TOGVGN	P			
_	A				

98BWM014_1	SLGTTEGVGS	P	
98BWM018 d	SQGTTEGVGN	P	
98BWM036 a	POGTTEGVGN	P	
_	- <del>-</del>		
98BWMO37_d	PQGTTEGVGS	P	
99BW3932_1	SQGTTEGVGS	P	
99BW4642 4	SQGTTEGVGS	P	
99BW4745 8	· <del>-</del>		
-	SQGTTEGVGS	P	
99BW4754_7	SQGTPEGVGN	S	
99BWMC16 8	SQGTTEGVGS	P	• • • • • • • • •
A2_CD_97CD	SQGAETGVGR	PQTSVESSGI	LGSGIEDX.
A2_CY_94CY	SQGTETGVGR	SQESVESSVI	LGSGTEEX.
A2D 97KR	POGTETGVGR	PQISVEPSVV	LGSGTEEX.
A2G CD 97C	PQGTETGVGG	<del></del>	
		.TIFVESSVI	LGSRTKEQX
A_BY_97BL0	SQXTETXVXX	PQISXESSXI	XXSGTKEX.
A_KE_Q23_A	SQGAETGVGR	HQVSVESPVI	LGSGTKNX.
A SE SE659	SQGVETGVGR	PQVSGESPVI	
			LGSGTKNX.
A_SE_SE725	SQGVETGVGR	PQVPGEPSTV	LGSGTKTX.
A_SE_SE753	SQGIETGVGR	PQVSVESPVI	LGSGTKEX.
A SE SE853	VGR	PQVSVESPGV	LDSGTKNX.
A_SE_SE889	SQGAETGVGG	PQVSEESSII	LGSGTKTX.
A_SE_UGSE8		TQVSGESSVV	LDSGTKDX.
A UG 92UG0	SQGVETGVGR	TOVSGESPVV	LGSGTKNX.
A UG U455			
	PQGTETGVGG	PQISVESSAV	LGSGTKNX.
AC_IN_2130	SQGVETGVGR	PQVSVESPGI	LGSGTKNX.
AC_RW_92RW	SQGTTEGVGN	PVSRKSCAVL	GSGTKKEX.
AC_SE_SE94	SQGTETGVGR	POVSVESSAI	LGPGTKNX.
ACD SE SE8	······VGS		
		NQISVESPAV	LDSGTKEX.
ACG_BE_VI1	······VGS	SQTSGEHPVI	LESGTKEX.
AD SE SE69	VGS	PQIPVEPPAV	LDSGTKEX.
AD SE SE71	VGS	POIPVESPAI	
			LDSGTENX.
ADHK_NO_97	VGD	PQIPGESSAV	LGTGTKEX.
ADK_CD_MAL	VGS	PQISVESPAI	LGSGTEEX.
AG_BE_VI11	SQGTETGVGR	PQIFVESSGV	LGSGTKEX.
AG NG 92NG	SPGTETGVGG	PQISVESPVV	
		<del>-</del>	LGSGTKEX.
AGHU_GA_VI	······VGS	PQISVESPTV	LGTGAKEX.
AGU_CD_Z32	·····VGD	SQIPGESCDL	LGSGTKEX.
AJ BW BW21	VGD	PQVSGESCPI	LGEGTKEX.
B_AU_VH_AF	·····VGG	POVLVESPAV	
B_CN_RL42	······VGS		LESGAAEX.
		PQILVESPAV	LDSGTKEX.
B_DE_D31_U	·····VGS	PQILVESPAV	LESGTKEX.
B_DE_HAN_U	VGS	POVLVESPAV	LEPGTKEX.
B FR HXB2		-	
	·······VGS	PQILVESPTV	LESGTKEX.
B_GA_OYI_M	······VGS	PEILVESPAV	LEPGTKEX.
B_GB_CAM1_	······VGS	<b>PQILVESPAV</b>	LESGTKEX.
B_GB_GB8_A	VGS	<b>PQVLVESPAV</b>	LDPGTKEX.
B_GB_MANC_	· · · · · · · · VGN	PQVLVESPAV	LESGSKEX.
B_KR_WK_AF	······VGN	PQILVESPAV	LESGTKEX.
B_NL_3202A	VGS	POILVESPAV	LESGTKEX.
B TW TWCYS	VGS	PQIFVESPTV	LDSGTKEX.
B_US_BC_L0	······VGS	PQVLVESPTV	LEPGTKEX.
B_US_DH123	······VGT	PQILVESPAV	LESGTKEX.
B US JRCSF	·····VGN	PEILVESPTV	LESGTKEX.
B_US_MNCG_	······VGS		
		PQILVESPTV	LESGTKEX.
B_US_P896_	······VGS	PQILVESPAI	LEPGTKEX.
B_US_RF_M1	·····VGS	<b>PQVLVESPAV</b>	LESGAKEX.
B_US_SF2_K	VGS	PQILVESPAV	
			LDSGTKEX.
B_US_WEAU1	·····VGS	SQILLESPAV	LEPGTKEX.
B_US_WR27_	·····VGD	PQILGESPTV	LGSGAKEX.
B_US_YU2_M	······VGS	PQILVESPPV	LDSGTKEX.
BF1_BR_93B	VGS		
		PQTSGESRAV	LESGTKEX.
C_BR_92BR0	PQGNTERVGN	PVFGRPCAVL	ESRVKKEX.

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C BW 96BW0 SQGTTEGVGN PVSGKSCAIL GSRAKKEX.
 C BW 96BW1 SQGTPEGVGN PISGKSCAVL GARAKKEX.
 C BW 96BW1 SQGTTEGVGS PISGKSCAVL GSGTKKEX.
 C_BW_96BW1 SQGTTEGVGS PVSGKSCAVL GSGTKKEX.
 C_ET_ETH22 SQGTTEGVGN PISGKPCAVL GSGAKKEX.
 C_IN_93IN1 ....L..GS PISGKSCAVL GSGAKKEX.
 C_IN_93IN9 SQGTTERVGS PISGKSCAVL GSGAKKEX.
 C_IN_93IN9 SQGTTEGVGS PISGKSCAVL GYRAKKEX.
 C_IN_94IN1 SQGTTERVGS PISGKSCAVL GSGAKKEX.
 C IN 95IN2 SQGTTEGVGS PISGKSCTVL GSGAEKEX.
 CRF01 AE C SQCTETGVGG PQISGESSVI LGSGTKNX.
CRF01_AE_C STGTETEVGR PQISGESSVI LGSGTKNX.
CRF01_AE_C SRGTETGVGR PQISGESSVI LGSGTENX.
CRF01_AE_T SQGTETGVGR PQISGESSVI LGPGTKNX.
CRF01_AE_T SQGTETGVGR PQISGESSVI LGSGTKNX.
CRF01_AE_T SQGTETGVGR PQISGESSVI LGPGTKNX.
CRF01_AE_T SQGTETGVGR PQISGESPVI LGPGTKNX.
CRF01_AE_T SQGTETGVGR PQISGESSVI LGPGTKNX.
CRF01_AE_T SQGTETGVGR PQISVESSGI LGPGTKNX.
CRF02_AG_F PQGTETGVGS PPISGESSTI LGSGTKEX.
CRF02_AG_F SQGTETGLGS PQISGESSDI LGAGTKEX.
CRF02_AG_G .....VAD PQIPGESRAI LGSGTKEX.
CRF02_AG_N SQGTETGVGS PQISVESYII LGSGTKEX.
CRF02_AG_S .....VGS PQISVESSIV LGSGTKEX.
CRF02_AG_S SQGTETGVGS SQTSVESSVI LGSGTKEX.
CRF03_AB_R .....VGS PQILVESPTV LDSGTKEX.
CRF03_AB_R .....VGS PQILVESPTV LDSGTKEX.
CRF04_cpx_ .....VGS PQVSVELPAV LGTGAKEX.
.CRF04_cpx_ .....VGS PQVSVEPPAV LGTGAKEX.
CRF04_CPX_ .....VGN PQVPVEPPAV LGTGDKEX. CRF05_DF_B .....VGS PQISVEPPAI LESGTKEX.
.CRF05_DF_B .....VGS PQISVESPTV LESGAKEX.
CRF06_cpx_ .....VGN PQISGEPDML LGTGTTEX.
CRF06_cpx_ .....VGD PQIPGEPGVV LGTGTKEX.
CRF06_cpx_ .....VGD PQIPVEPGVL LGTGTKEX.
CRF06_cpx_ .....VGD PQIPGEPGVL LGTGTKEX.
CRF11_cpx_ .....VGD SQISGESDTV LGPRTEEX.
CRF11_cpx_ ....VGE SQIPGESSTV LGPRTEEX.
D_CD_84ZR0 ....VGS PQISVESPAI LESRTEEX.
D_CD_ELI_K ....VGH PQISVESPTV LESGTEEQX
D_CD_NDK_M .....VGS PQIPVEPPAV LESGTEEX.
D_UG_94UG1 .....VGS HQISVESPAV LDSGTKEX.
F1_BE_VI85 .....VGS SQISGESHAV LESGTKEX.
F1_BR_93BR .....VGS SQISGESHTV LGSGTKEX.
F1_FI_FIN9 ......VGS PQISGEHHTV LESGTKEX.
F1_FR_MP41 .....VGN PQISMEPRTV LESGTKEX.
F2_CM_MP25 .....VGS PQISVESRAV LGSGTKEX.
F2KU_BE_VI .....LGN PQIPVEPCAV LGSGTKEX.
G_BE_DRCBL SQGTEIGVGS PQIFVESSVV LGSGTKEX.
G_NG_92NG0 PQGTETGVGR PQVLVEPPVV LGSGTKEX.
G_SE_SE616 PQGTETGVGR .SIFVESSVV LGQGTKEX.
H_BE_VI991 ......VGS PQTSGESPAV LGTGAKEX.
H_BE_VI997 .....KGG PQIPVESSTV LGTGTKEX.
H_CF_90CF0 ......EGS PQISLESSTI LGTGTKEX.
J_SE_SE702 ......VGD PQISGEPCMV LGAGTKEX.
J_SE_SE788 .....VGD PQISGEPCMV LGAGTKEX.
K CD EQTB1 .....LGS PQIPVEPDTV LGSGDKEX.
K CM MP535 .....LGS PQISVEPCTV LESGTKEX.
N CM YBF30 QQG.TATTET QNTLVGNTCI LGKRVKGX.
O_CM_ANT70 VDPR.AEDNC LQNLCSCNTI LATRIAEX.
O_CM_MVP51 VDPG.TKDNS LT.LWSCNAI LATRIEKX.
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0_	_SN_	MP129	VDSG.TEDNC	LQTLHSCNTI	LATRVAEX.
0_	_SN_	MP130	VDPG.TEDNC	LQNLHSCNTI	LATRVAEX.
U	CD	83C	VGS	TOTPGESCAV	T.GGGTKE

Table 16. HIV Tat Alignment GCG Multiple Sequence File. Written by Omiga 1.1

Name: 00BW0762_1	Len:	108	Check: 5728	Weight:	1.00
Name: 00BW0768_2	Len:	108	Check: 4583	Weight:	1.00
Name: 00BW0874_2	Len:	108	Check: 5462	Weight:	1.00
Name: 00BW1471_2	Len:	108	Check: 4359	Weight:	1.00
Name: 00BW1616_2	Len:	108	Check: 5389	Weight:	1.00
Name: 00BW1686 8	Len:	108	Check: 6742	Weight:	1.00
Name: 00BW1759 3	Len:	108	Check: 6187	Weight:	1.00
Name: 00BW1773 2	Len:	108	Check: 5566	Weight:	
Name: 00BW1783 5	Len:	108	Check: 6579	Weight:	1.00
Name: 00BW1795 6	Len:	108	Check: 6027	Weight:	1.00
Name: 00BW1811 3	Len:	108	Check: 4928	Weight:	1.00
Name: 00BW1859 5	Len:	108	Check: 6153		1.00
Name: 00BW1880 2	Len:	108	Check: 6898	Weight: Weight:	1.00
Name: 00BW1921_1	Len:	108	Check: 6286		1.00
Name: 00BW2036 1	Len:	108	Check: 4808	Weight:	1.00
Name: 00BW2063 6	Len:	108	Check: 7492	Weight:	1.00
Name: 00BW2087 2	Len:	108		Weight:	1.00
Name: 00BW2127 2	Len:	108		Weight:	1.00
Name: 00BW2276 7	Len:	108		Weight:	1.00
Name: 00BW3819_3	Len:	108		Weight:	1.00
Name: 00BW3842_8	Len:		Check: 4977	Weight:	1.00
Name: 00BW3.871 3	Len:	108	Check: 5730	Weight:	1.00
Name: 00BW3876_9	Len:	108.		Weight:	1.00
Name: 00BW3886 8		108	Check: 4797	Weight:	1.00
Name: 00BW3891_6	Len:	108	Check: 7443	Weight:	1.00
Name: 00BW3970 2	Len:	108	Check: 5634	Weight:	1.00
Name: 00BW5031 1	Len:	108	Check: 5984	Weight:	1.00
Name: 96BW01B21	Len:	108	Check: 8884	Weight:	1.00
Name: 96BW01B21	Len:	108	Check: 6237	Weight:	1.00
Name: 96BW0502	Len:	108	Check: 5097	Weight:	1.00
Name: 96BW06 J4	Len:	108	Check: 5303	Weight:	1.00
Name: 96BW11_06	Len:	108	Check: 5679	Weight:	1.00
Name: 96BW11_06	Len:	108	Check: 7244	Weight:	1.00
Name: 96BW15B03	Len:	108	Check: 5043	Weight:	1.00
	Len:	108	Check: 5056	Weight:	1.00
Name: 96BW16_26 Name: 96BW17A09	Len:	108	Check: 5774	Weight:	1.00
	Len:	108	Check: 4288	Weight:	1.00
	Len:	108	Check: 6335	Weight:	1.00
Name: 96BWMO3_2 Name: 98BWMC12 2	Len:	108	Check: 5085	Weight:	1.00
<del>-</del>	Len:	108	Check: 5048	Weight:	1.00
Name: 98BWMC13_4	Len:	108	Check: 5714	Weight:	1.00
Name: 98BWMC14_a	Len:	108	Check: 6475	Weight:	1.00
Name: 98BWMO14_1	Len:	108	Check: 5085	Weight:	1.00
Name: 98BWM018_d	Len:	108	Check: 4268	Weight:	1.00
Name: 98BWM036_a	Len:	108	Check: 6665	Weight:	1.00
Name: 98BWMO37_d	Len:	108	Check: 5564	Weight:	1.00
Name: 99BW3932_1	Len:	108	Check: 5875	Weight:	1.00
Name: 99BW4642_4	Len:	108	Check: 6405	Weight:	1.00
Name: 99BW4745_8	Len:	108	Check: 4857	Weight:	1.00
Name: 99BW4754_7	Len:	108	Check: 5219	Weight:	1.00
Name: 99BWMC16_8	Len:	108	Check: 4870	Weight:	1.00
Name: A2_CD97	Len:	108	Check: 4523	Weight:	1.00
Name: A2_CY94	Len:	108	Check: 3933	Weight:	1.00
Name: A2D97_9	Len:	108	Check: 4676	Weight:	1.00
Name: A2G_CD9	Len:	108	Check: 2213	Weight:	1.00
Name: A_BY_97_97	Len:	108	Check: 4264	Weight:	1.00
Name: A_KE_93_Q2	Len:	108	Check: 3668	Weight:	1.00
Name: A_SE_93_SE	Len:	108	Check: 4159	Weight:	1.00
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00BW0762_1 ...MEQVDPN LEPWNHPGSQ PKTPCNKCFC KSCSYHCLVC FQTKGLGISY
00BW0768_2 ...MDPVDPN LEPWNHPGSQ PKTACNNCYC KYCSYHCLVC FQKKGLGISY
00BW0874_2 ...MEPVDPN LEPWNHPGSQ PKTACNSCYC KHCCYHCRVC FLTKGLGISY
00BW1471_2 ...MDPVDPK LEPWNHPGSQ PKTACNTCYC KKCCYHCQVC FLNKGLGISY
00BW1616_2 ...MEPIDPN LEPWNHPGSQ PSTACNKCYC KQCCYHCPAC FLTKGLGISY
00BW1686_8 ...MEPVDPK LEPWNHPGSQ PTTPCTTCFC KVCSYHCLVC FQTKGLGIYY
00BW1759_3 ...MEPIDPN LEPWNHPGSQ PKTACNKCYC KSCSYHCLVC FQKKGLGISY
00BW1773_2 ...MEPVDPN LEPWNHPGSQ PKTPCTKCYC KLCSYHCLVC FQTKGLSISY
00BW1783_5 ...MEPVDPN LEPWNHPGSQ PKTPCTKCYC KKCSYHCLVC FQTKGLGISY
00BW1795_6 ...MEPVDPS LEPWNHPGSQ PKTPCNHCYC KHCSYHCLVC FQRKGLGISY
00BW1811_3 ...MEPVDPN LEPWKHPGSQ PKTACNTCYC KRCSYHCPVC FLTKGLGISY
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000000000	•
00BW1859_5	
00BW1880_2	2MEPVDPN LEPWNHPGSQ PQTPCNKCYC KRCSYHCLVC FQTKGLGISY LMEPIDPK LEPWNHPGSQ PNTPCTPCTAGE LMEPIDPK LEPWNHPGSQ PNTPCTPCTAGE
00BW1921_1	LMEPIDPK LEPWNHPGSQ PNTPCTPCYC KKCSYHCLVC FQTKGLGISY LMEPVDPK LEPWNHPGSQ PKTPCNKCYC KKCSYHCLVC FQTKGLGIYY
00BW2036_1	LMEPVDPK LEPWNHPGSQ PKTPCNKCYC KKCSYHCLVC FQTKGLGIYY MEIVDPN LDPWDHPGSQ PSTPCNKCYC KKCSYHCLVC FQTKGLGISY
00BW2063_6	MEIVDPN LDPWDHPGSQ PSTPCNKCYC KKCSYHCLVC FQTKGLGISYMEPIDPN LEPWNHPGSQ PKTACNKGRG
00BW2087_2	2MEPIDPN LEPWNHPGSQ PKTACNKCFC KRCCYHCPAC FLTKGLGISY 2MEPVDPN LEPWNHPGSQ PKTACSRGWG KRCCYHCPAC FLTKGLGISY
00BW2127_2	MEPVDPN LEPWNHPGSQ PKTACSPCYC KNCSYHCLVC FQTKGLGISYMEPVDPN LEPWKHPGSQ PKTACSCCC KNCSYHCLVC FQTKGLGISY
00BW2276_7	MEPVDPN LEPWKHPGSQ PKTACTSCYC KRCSYHCLVC FQTKGLGISYMEPVDPN LEPWNHPGSQ PKTACTSCYC KRCSYHCLVC FQTKGLGISY
00BW3819_3	MEPVDPN LEPWNHPGSQ PKTACNQCYC KRCSYHCLVC FQTKGLGISYMEPVDPK LEPWNHPGSQ PRTBCNKCHG
00BW3842_8	MEPVDPK LEPWNHPGSQ PRTPCNKCFC KVCSYHCQSC FLTKGLGISYMDPVDPN LEPWNHPGSQ PKTPCNNCVC
00BW3871_3	MDPVDPN LEPWNHPGSQ PKTPCNNCYC KKCSYHCVVC FQTKGLGISYMELIDPK LEPWNHPGSQ PAARCYNGYG KKCSYHCVVC FQTKGLGIYY
00BW3876_9	MELIDPK LEPWNHPGSQ PAAPCNNCYC KKCSYHCVVC FQTKGLGIYYMEPIDPN LEPWNHPGSQ PKTPCTWCYC KHCSYHCLVC FQTKGLGISY
00BW3886_8	MEPIDPN LEPWNHPGSQ PKTPCNKCYC KHCSYHCLVC FQTKGLGISYMEPVDPN LEPWNHPGSQ PNTACHKCYC KHCSYHCLVC FQNKGLGISY
00BW3891_6	MEPVDPN LEPWNHPGSQ PNTACNKCYC KQCSYHCLVC FQKKGLGISYMEPVDPN LEPWNHPGSQ PKTACNGGYG KQCSYHCLVC FQKKGLGISY
00BW3970_2	MEPVDPN LEPWNHPGSQ PKTACNSCYC KKCSYHCLVC FQKKGLGISYMEPVDPN LEPWNHPGSQ PKTACNSCYC KKCSYHCQVC FLTKGLGISY
00BW5031_1	MEPVDPN LEPWNHPGSQ PKTACNSCYC KKCSYHCQVC FLTKGLGISYMEPVDPN LEPWNHPGSQ PKTACNIGYG KQCSYHCPVC FLTKGLGIYY
96BW01B21	MEPVDPN LEPWNHPGSQ PKTACNNCYC KQCSYHCPVC FLTKGLGIYYMEPIDPN LEPWNHPGSQ PKTACNNCYC KHCSYHCLVC FQTKGLGIYY
96BW0407	MEPIDPN LEPWNHPGSQ PKTACNNCYC KHCSYHCLVC FQTKGLGIYYMEPVDPN LEPWKHPGSQ PRTACTKGYG HTGSYHCLVC FQTKGLGISY
96BW0502	MEPVDPN LEPWKHPGSQ PRTACTKCYC KYCCYHCLVC FQTKGLGISYMEPVDPK LEPWNHPGGO PKTRCYMEGYG
96BW06_J4	MEPVDPK LEPWNHPGGQ PKTPCNTCYC KKCSYHCLVC FQKKGLGISYMEQVDPN LEPWNHPGGO PKTPCNNGVG
96BW11_06	MEQVDPN LEPWNHPGSQ PKTPCNTCYC KKCSYHCLVC FQKKGLGIYYMEPVDPN LEPWNHPGSQ PKTACNKGYG KYCSYHCLVC FQTKGLGISY
96BW1210	MEPVDPN LEPWNHPGSQ PKIACNKCYC KACCYHCLVC FQTKGLGISYMEPVDPK LEPWNHPGSQ PKTPCTKGTG
96BW15B03	MEPVDPK LEPWNHPGSQ PKTACNKCYC KACCYHCLVC FQTKGLGISYMEPVDPK LEPWNHPGSQ PKTACNKCYC KGCSYHCLVC FQTKGLGISY
96BW16_26	MEPVDPK LEPWNHPGSQ PKTACNKCYC KRCSYHCLVC FQTKGLGISYMDPVDPS LEPWNHPGSQ PKTACNTGYG KRCSYHCLVC FQTKGLGISY
96BW17A09	MDPVDPS LEPWNHPGSQ PKTACNTCYC KKCCYHCLVC FQTKGLGISYMEPVDPN LEPWKHPGSQ PETDCNKGVG KKCCYHCQVC FLNKGLGISY
96BWM01_5	MEPVDPN LEPWKHPGSQ PETPCNKCYC KSCSYHCLVC FQKKGLGISYMEPVDPN LEPWNHPGSQ PKTACHNGGG TECHNOLOGY
96BWM03_2	MEPVDPN LEPWNHPGSQ PKTACNNCCC KRCSYHCLVC FQKKGLGISYMEPVDPN LEPWNHPGSQ PKTACNNCCC KRCSYHCLVC FQKKGLGISY
98BWMC12_2	MEPVDPN LEPWNHPGSQ PKTACNNCCC KRCSYHCLVC FQKKGLGISYMEPVDPN LEPWNHPGSQ PKTSCNNCYC KRCCYHCQRC FLTKGLGISY
98BWMC13_4	MEPVDPN LEPWNHPGSQ PKTSCNNCYC KKCSYHCLVC FQKKGLGISYMDPVDPK LEPWNHPGSQ PSTRCNTGRG
98BWMC14_a	MDPVDPK LEPWNHPGSQ PSTPCNTCFC KKCSYHCLVC FQKKGLGISYMEPIDPN LEPWNHPGSQ PKTACNKCHG
98BWM014_1	MEPIDPN LEPWNHPGSQ PKTACNKCHC KRCCYHCTVC FLTKGLGISYMEPIDPN LEPWNHPGSQ PKTACNKCHC KRCCYHCTVC FLTKGLGISY
98BWM018_d	MEPIDPN LEPWNHPGSQ PRIDCNKCYC KRCCYHCTVC FLTKGLGISYMEPVDPN LEPWNHPGSQ PRIDCNKCYC KRCCYHCLVC FQKKGLGISH
98BWM036_a	MEPVDPN LEPWNHPGSQ PRTACNTCYC KKCSYHCLVC FQKKGLGISHMEPVDPN LEPWNHPGSQ PKTACNYCYC KKCSYHCLVC FQKKGLGISY
98BWMO37_d 99BW3932_1	MEPVDPN LEPWNHPGSQ PKTACNTCYC KKCSYHCLVC FQKKGLGISYMEPVDPN LEPWNHPGSQ PKTACNKCYC KHCSYHCLVC FQTKGLGISY
99BW4642_4	MEPVDPN LEPWNHPGSQ PKTACNKCYC KHCSYHCLVC FQTKGLGISYMEPVDPN LEPWNHPGSQ PKTACNKCYC KSCSYHCPVC FLSKGLGISY
99BW4745_8	MEPVDPN LEPWNHPGSQ PKTPCTTCFC KRCSYHCLVC FQTKGLGIYY
99BW4754_7	MEPVDPN LEPWNHPGSQ PSTACNKCYC KHCSYHCLVC FQTKGLGIYYMEPVDPN LEPWNHPGSQ PETPCNKCFG KHCSYHCLVC FQTKGLAISY
99BWMC16 8	MEPVDPN LEPWNHPGSQ PETPCNKCFC KACSYHCLVC FQKKGLGISYMDPVDPN LEPWNHPGSQ PKTACNEGUG KACSYHCLVC FQKKGLGISY
A2_CD97	MDPVDPN LEPWNHPGSQ PKTACNRCYC KKCSYHCLVC FQKKGLGISYMEPVDPN LEPWNHPGSQ PKTACNRCYC KKCSYHCLVC FHTKGLGISY
A2 CY 94	MEPVDPN LEPWNHPGSQ PKTACNNCYC KKCCYHCQRC FLNKGLGISYMEPVDPK LEPWNHPGSQ PKTACNNCYC KKCCYHCQRC FLNKGLGISY
	MEPVDPK LEPWNHPGSQ PKTACNNCYC KKCCYHCQRC FLNKGLGISYMDPVDPN LEPWNHPGSQ PRTACNKCYC KRCCYHCQLC FINKGLGISY
A2G CD 9	MDPVDPN LEPWNHPGSQ PRTACNKCYC KRCCYHCPVC FLNKGLGISYMDPVDPN LEPWNHPGSQ PKTACNKCYC KRCCYHCPVC FLNKGLGISY
A_BY_97_97	MDPVDPN LEPWNHPGSQ PKTACNKCYC KRCCYHCPVC FLNKGLGISYXDPVDPN LEPXNHXXSO PKTYCRNGYC KACCWHCQVC FLNKGLGISY
A_KE_93_Q2	
A_SE_93_SE	MDPVDPN LEPWNHPGSQ PTTACNKCYC KKCCYHCQVC FLKKGLGISYMDPVDPN LEPWNHPGSQ PSTACNKCYC KKCCYHCQVC FLNKGLGISY
A_SE_94 SE	MDPVDPN LEPWNHPGSQ PSTACNKCYC KKCCYHCQVC FLNKGLGISYMDPVDPN LEPWNHPGSQ PTTPCCKGVG KYCCYHCPVC FLNKGLGISY
A_SE_94_SE	MDPVDPN LEPWNHPGSQ PTTPCSKCYC KKCCYHCIVC FQNKGLGISYMDPVDPN LEPWNHPGSQ PTTACHKOYC KKCCYHCIVC FQNKGLGISY
A_SE_95_SE	MDPVDPN LEPWNHPGSQ PTTACNKCYC KKCCYHCIVC FQNKGLGISYMEPVDPN IEPWNHPGSQ PTTACNKCYC KKCCYHCQAC FLNKGLGISY
A_SE_95 SE	MEPVDPN IEPWNHPGSQ PTTPCTKCYC KKCCYHCQAC FLNKGLGISYMDPVDPN LEPWNHPGSQ PATACCACKS
A_SE_95 UG	MDPVDPN LEPWNHPGSQ PATACSACYC KKCCYHCPVC FLNKGLGISYMDPVDPN LEPWNHPGSQ PATACSACYC KKCCYHCPVC FLNKGLGISY
A_UG_85 U4	MDPVDPN LEPWNHPGSQ PTTPCNKYFC KRCCYHCLVC FQHKGLGISYMEPVDPN LEPWKHPGSQ PTTPCNKYFC KRCCYHCLVC FQHKGLGISY
A_UG_92_92	MEPVDPN LEPWKHPGSQ PTTACSNCYC KVCCWHCQLC FLKKGLGISYMDPVDPS LEPWNHPGSQ PKTRCHYCKG
AC_IN_95_2	MDPVDPS LEPWNHPGSQ PKTPCNKCYC KVCCYHCQLC FLKKGLGISYMEPVDPN LEPWNHPGSQ PRIACTIVICAG KVCCYHCQCC FLNKGLGISY
AC_RW_92_9	MEPVDPN LEPWNHPGSQ PRIACNNCYC KRCSYHCLVC FLNKGLGISYMEPVDPK LEPWNHPGSQ PKIACNNCYC KRCSYHCLVC FQKKGLGISY
AC_SE_96_S	MEPVDPK LEPWNHPGSQ PKTACNNCYC KRCSYHCLVC FQKKGLGISYMEPIDPN LEPWNHPGSQ PKTACNNCYC KHCSYHCLVC FQAKGLGISY
ACD_SE_95_	MEPIDPN LEPWNHPGSQ PKTACNNCYC KHCSYHCLVC FQAKGLGISYMDLVDPN LEPWNHPGSQ PTTPCSKCVC
ACG_BEV	MDLVDPN LEPWNHPGSQ PTTPCSKCYC KKCCYHCQHC FITKGLGISYMEPVDPK LEPWNHPGSQ PKTACHKGRG KKCCYHCQHC FITKGLGISY
AD_SE_93_S	MEPVDPK LEPWNHPGSQ PKTACNKCFC KKCSYHCLVC FQTKGLGISYMDPVDPS LEPWNHPGSQ PTTPCTKGVC KKCSYHCLVC FQTKGLGISY
AD SE 95 S	MDDVDDN I BDVDVD TIFCIRCIC RRCCYHCQVC FITKGLGISY
ADHK NO 97	MDPVDPN LEPWNHPGSQ PTTPCSKCYC KKCCYHCQVC FITKGLGISYMDPVDHN LEPWNOPGSQ PNTPCDSXCYC KKCCYHCQSC FLNKGLGISY
	MDPVDHN LEPWNQPGSQ PNTPCNNCYC KQCCYHCQLC FLRKGLGISY

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ADK_CD_85_	MDPVDPN	I I.RDWWWDGG	, DDMD		•
AG_BEVI	MDPVDPN	LEDMMUDGE	5 PKILDCNKGA(	KKCCYHCQM	FITKGLGISY
AG NG 92 9					
AGHU GA		TOE MADE GOL	אסיורוים ו	7 1/T // // / / / / / / / / / / / / / / /	
AGU CD 76					
AJ_BW_98_B					
B AU VH		705 MMOEGOL	יסייטיויי ארואם נ	' VV/ACTTAATE	·
B CN RL4		- DOE NAMEGOL	<i>)</i> PK1'A("!'N(''\/	* 17000mmma	·
B DE 86 D3		- HELMINEGOL	, PKI'AL MMI''V'	・ レファイフィー TTペー・・・	
B DE 86 HA			, PATAL "NIT'VI	' VVAADITAAT	<b>4 </b>
B_FR_83_HX		THE WITHERSON	ייטייועיויי ושיויאם נ	' VV///// ***	·
B GA OYI		THE MICHEGAC	, ekhathindac	・ <b>どび</b> のつわけんへいっ	1 Transaction
B GB CAM		TOT WITE GOL	PKTASNMUVC	' KDOOT TIOATIA	1 Tames
B GB GB8		TOPWAREGOU	י איזיאוייז איניאר ע	VACCITITATION	
B_GB_59 MA		THE NUMBERSON	PRIMITOR	' V////////////////////////////////////	·
B KR WK		ADE MADEGOO	PKTALTIKAVA	VIZAAT TTAAT	·
B_NL_86 32		カカモ いかしらつい	ייי איויי ארויאריי ארויאריי	VVAAT TEAATEA	
B_NH_00_32 B TW TWC		THE NITTIE GOOD	PATALMMICVE	VV///DIT//Atta	******
B US DH1		コロモ いいひをひらし	PKTALTIMOVO	VVAAT ITAATTA	<b>————</b>
B_USDR1		カロモ がかけんけいり	ייין אין אין אין אין אין אין אין אין אין	TATAMAT TEMPORAL	
	· · · · · · · · · · · · · · · · · · ·	THE MICHEGOU	PKTAUTNCVC	KKCCCDIICON C	TITMETER AND A
B_US_83_RF B_US_83_SF					
B_US_84_MN		THE WINDERGOOD	PRITACININGVO	WWC/Cuttous a	
		MUE MIGHEGOO	PKTOLTTO	VVCCDITCOTTC	
B_US_86_JR		THE MITTIESON	PKTACTNCVC	VV///// TT////TT	The formation of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of t
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B_US_87_BC	· · · · · · · · · · · · · · · · · · ·	745 MVT 5620	ייין אין אין אין אין אין	TOTAL TRACTION	
B_US_88_WR		TIPE MICERGEO	PKTAUTMCVC	TTCCCTTCCCTCC	TITOTAGE COMMISSION
B_US_90_WE		THE NIGHT GOOD	PKTACTRICVC	VDCCDIICOTIC	T1
BF1_BR_93_	· · · · · · · · · · · · · · · · · · ·	TELMUTERSK	POTACNSCVC	アアクロロコつつなる	Timescale and and
C_BR_92_92		THE MINUEGOOD	PKIIACNINCVC	VDCCVIIOI 110	77.0
C_BW_96_96	A A A STATE TOTAL	TELMNUEGOO	PKTACNKCRC	KUCCVIICI 170	TABLES
C_BW_96_96		THE WINKEGOU	PK.I.DU.WINICAC	TOTAL TOTAL TEACH	
C_BW_96_96	A A A A TOTAL	TREMNUEGOO	PKIACNIKCVC	ひろ へつひびてつて **~	
C_BW_96_96	· · · · · · · · · · · · · · · · · · ·	THEMMERSON	PKTPCTRCTC	TO CONTINE TEA	Tomas
C_ET_86_ET	ADL M	TOPWINDEGSO	PKIIAUMOCVC	VVOCUTAT TO	
C_IN_93_93	· · · · · · · · · · · · · · · · · · ·	TOPMINDEGSO	PKIIACIMOCVO	VD COMMOT TO	
C_IN_93_93		THEMMUTECOO	PKTAUMMOVO	VIIOCUTTOT TEA	T0.
C_IN_93_93		THE MINUEGOOD	PRIDCINICIPO	VCOOMIGIATIO	
C_IN_94_94		THE WINTEGOOD	PKTACNNOVO	VUCCIATOR TO	707
C_IN_95_95	· · · · · · · · · · · · · · · · · · ·	THE MINUSCOOL	PKTAUMMOVO	TATA CALLES	Was
CRF01_AE_C		THE WINTERSON	PITTAUSKOVO	VVCCIIII COT O	737 7mm
CRF01_AE_C		THEMITTES	PITTACSKOVO	VMCCUITTOOT O	TT TUTTON
CRF01_AE_C		THE MINDEGOOD	PITIALNIKOVO	VTCCTTTCCT	
·	TATA A TAT 14	TITE WINDER	PITTACSKCVC	KKCCMIIICOT C	TT
CRF01_AE_T		TOPMAGEGOO	PSTACSROVA	VTACETTACE OF	
CRF01_AE_T		THE MINTEGOOD	PTTAUSKOVO	VTOOMITTOOT	WW
CRF01_AE_T		WINTEGOOD	PETACSKOVO	VVACIONAL	
CRF01_AE_T		かいち いいひとほりい	PITAUSKOVO	VVCCIIIICOI a	TT
CRF01_AE_T			PITALSKUVC	VVAANTAATA	777
CRF02_AG_F		THE WINDEGOOD	PITACSKOVO	TO COUNTY OF A	THE ATES
CRF02_AG_F		OCOTION 100	PITACSNOVO	KTCChurcoro	TIT STEEDS ASSESS
CRF02_AG_G	•••••••••••••••••••••••••••••••••••••••	ロロモルがひとほうひ	PITTACSKOVO	VTCCUTTCCT C	137 American
CRF02_AG_N	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	DELMNDEGEO	PIPIACSKOVO	KMCC TICOTO	TT 1
CRF02_AG_S	· · · · · · · · · · · · · · · · · · ·		PTTACSKOVO	VICCOUNTAGE	THE RESERVE
CRF02_AG_S	· · · · · · · · · · · · · · · · · · ·	DELMMULGOO	PTTACSKCVC	KT.CCMUCCA	TTT 3 TTT
CRF03_AB_R	MEPVDPR	LEPWKHPGSO	PKTDCONCIC	VIICCMHCÖPC	F-LNKGLGISY
CRF03_AB_R	A A A STATE A TOTAL OF THE	ロロをMVはたけるの	PKIIACIINICVC	ひひへつて けいへいさん	
CRF04_cpx_	MEPVDPD	LEPWNHPGGO	DAMDCMAGAG	VVCCTHCOAG	FMKKGLGISY
CRF04 cpx					
CRF04_cpx_		LEPWNHPGGO	- TACNACIC .	AVCCMHCOVC	FLKKGLGISY
CRF05_DF_B	MDPVDPN 1	LEPWNHPGGO	PPTACTACTACTC	KVCCYHCQVC	FLRKGLGISY
— <del></del>			- NIBUNDUIU	MACCAHCONG	FITKGLGISY

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CRF05_DF_B ...MDPVDPN LEPWNHPGSQ PRTACNQCHC KKCCYHCQVC FITKGLGISY
CRF06_cpx_ ...MEPVDPK IEPWNQPGSR PKTACTKCYC KKCCYHCPVC FLNKGLGISY
CRF06_cpx_ ...MEPVDPN IEPWNQPGSR PKTACTPCYC KKCSYHCQLC FLNKGLGISY
CRF06_cpx_ ...MEPVDPK IEPWNQPGSR PKTACTSCYC KRCCYHCPLC FLNKGLGISY
CRF06_cpx_ ...MEPVDPN IEPWNQPGSR PKTACTSCYC KQCCYHCPVC FLNKGLGISY
CRF11_cpx ...MEPVDPN IEPWNQPGSR PKTACNQCYC KRCCYHCPHC FLKKGLGIYY
CRF11_cpx ...MEPGDIN IDPWNQPGSQ PKTACNQCYC KRCCYHCQHC FLKKGLGISY
D_CD_83_EL ...MDPVDPN LEPWNHPGSQ PRTPCNKCHC KKCCYHCPVC FLNKGLGISY
D_CD_83_ND ...MDPVDPN LESWNHPGSQ PRTACNKCHC KKCCYHCQVC FITKGLGISY
D_CD_84_84 ...MDPVDPN IDPWNHPGSQ PRTACNNCYC KKCCYHCQVC FITKGLGISY
D_UG_94_94 ...MEPVDPN LEPWNHPGSQ PRTPCNKCYC KRCCYHCYVC FVTKGLGISY
F1_BE_93_V ...MEPVDPS LDPWNHPGSQ PTTPCTKCYC KRCCFHCQWC FTTKGLGISY
F1_BR_93_9 ...MELVDPN LDPWNHPGSQ PTTPCTRCYC KWCCFHCYWC FTTKGLGISY
F1_FI_93_F ...MELVDPN LDPWNHPGSQ PPTPCNKCYC KRCCFHCYWC FATKGLGISY
F1_FR_96_M ...MELVDPN LDPWNQPGSQ PTTPCTKCYC KKCCFHCYCC FATKGLGISY
F2_CM_95_M ...MEVVDPN LDPWKHPGSQ PETPCNKCYC KKCCFHCQLC FTRKGLGISY
F2KU_BE_94 ...MEQVDPN LDPWNHPGSQ PKTACNNCYC KKCCFHCQVC FTTKGLGISY
G_BE_96_DR ...MDPVDPK LEPWKHPGSQ PKTPCNNCYC KS.VAALQVC FLNKGLGISY
G_NG_92_92 ...MDPVDPK LEPWNHPGSQ PTTPCNKCYC KVCCWHCQVC FLNKGLGISY
G_SE_93_SE ...MDPVDPN LEPWNHPGSQ PKTPCNKCFC KVCCWHCQVC FLNKGLGISY
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K_CD_97_EQ ...MEPVDPN IEPWNQPGSQ PKTACNQCYC KKCCYHCQLC FLQKGLGICY
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N_CM_95_YB ...MEPVDPR LEPWNHPGSQ PKTACNUCYC KRCCYHCLYC FTKKGLGISY
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O_CM_ANT ...MDPVDPE VPPWHHPGSQ PQIPCNNCYC KRCCYHCYVC FVRKGLGISY
O_CM_91_MV ...MDPVDPE MPPWHHPGSK PQTPCNNCYC KRCCYHCYVC FTKKGLGISY
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O_SN___99S ...MDPVDPE MPPWHHPGSQ PQTPCNKCYC KACCYHCYVC FASKGLGISY
U_CD___83C ...MDPVDPR LEPWNHPGSQ PKTACNSCYC KRCCLHCQVC FMTKGLGISY
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                                                                                 100
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00BW3891_6 GRKKRRQRR. .SAPPSSEDH QNPISKQPLS .QTRGDSTGS EESKKKVESK
00BW3970_2 GRKKRRQRR. .SAPPSSEDH QNLISKRPLP .QTRGNQTGS EESKKKVESK
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00000000	<b>CD.</b>				
00BW5031_1			I QNPVSKQPL	P .QARGNSTG	S EESKKKVESK
96BW01B21			I QNLISKQPL	${f P}$ . RTOGDPTG	S EESKKKVESK
96BW0407			I QNPVSKQPL	S .OTRGDPTG	S EESKKKVESK
96BW0502			QNLISEQPL	P .RTOGNPTG	S EESKKKVESK
96BW06_J4			QDPISKQPF	P RTOGESTO	S EESKKEVESK
96BW11_06			QNPVSKQPL	P .OTRGDDTC	
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99BW4642_4	GRKKRGQRRR		QDLV5KQPLI	~	
99BW4745_8	GRKKRRORR.		ONTARKO DIT		
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A2_CD 97	GRKKRRPRR.	GDDOGNITOUT	ONDALSKODPE		
A2_CY 94	GRKKRRPRR.	KDSDSWIDH	QNPVPKQSLE		
A2D 97 9	GRKKRRPRR.	PDDOGGTCU	QNPIPEQSLE	~ ~~	
A2G_CD 9	GRKKRKHRR.	CAPPOCALDII	ONDIDEROSLE		
A_BY 97 97	GRKKRRHRR.	CTCUCCVDII	QNPIPKQPLP XIPISKQPLP		
A_KE_93 Q2	GRKKRRQRR.	GIBUSSKDH	VILLEKÖPPE		
A_SE_93 SE	GRKKRTRRR.	CAPOSATADIT	QNSIQKQPIP		
A SE 94 SE	GRKKRRORR.	HTMSQTAD:	QNPISKQPIP		EESKKKVESK
A SE 94 SE	GRKKRKQRR.	CV DOCKEDIA	QNPIPKQPIP		EESKKKVESK
A SE 95 SE	GRKKRKQRR.	. GAPQSNKDH	ONPIQUOSIP		
A SE 95 SE	GRKKRRQRR.	.GTPQGNKDH	ONPIPKOSTP	QTQG.ISTGP	EESKKKVESK
A SE 95 UG	GRKKRRQRR.	.RTPQSSKDH	ONPVPKQSIP	QAQG.DSTGP	
A UG 85 U4	GKKKRKPRR.	.GTPQSSKDH	ODPIPKQSIP	PAQG. IPTGP	EESKKKVESK
A_UG_92_92	GRKKRKPRR.	.GPPQGSKDH	OLDIDER STORY	QSQR.VSAGQ	EESKKKVESK
AC_IN_95_2	GRKKWRQRR.	.GTPQSNKDH	ONETEKOPIP	RTQG.DSTGP	EESKKKVESK
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AC_SE_96_S	GRKKRRQRR.	.NAPPSSEDH	ONDISKOPLS	.QTRGDPTGS	EESKKKVESK
ACD SE 95		. SAPPSSKDH	QNPISKQSIP	.QTQGDPTGP	EEPKKKVESK
ACG BE V	GRKKRSQRR.	.GPPQSNKDH	ONLACKOLIA		EESKKKVESK
AD_SE_93_S	GRKKRRORR.		ONTICKOPIS	מאשמתמששיי	DICORRES
AD_SE_95_S	GRKKRKQRR.	.AIPEGGQAH	QDPIPKQPSS	OPRGD PTGD	KUKKK TINGT
ADHK_NO_97	GRKKRRPRR.	· OITE E DOIGDIT	<b>CMBIRKONIA</b>	QTQG.ISTGP	KESKKEVESK
ADK_CD_85_	GRKKRRQRR.	• WE E TOO OUT	ODETEKOPES	RTHGEDTGD	VIDICIZIS TENGE
AG_BEVI	GRKNRKHRR.	CUDOGO TOTAL	QUPLPEQPSS	QHRGDHPTGP	KEKKK. VESK
AG_NG_92_9	GRKKRRRRR.	. OTI SODIUM	ONE A BROSTE	LIRG. IPTGP	EESKKEVASK
AGHU_GA	GRKKRSQRR.	.GTPQSHQDH	ONDABKODPD	$\mathtt{TTRG.NPTGP}$	KESKKEVESK
AGU_CD_76_	GRKKRRQRR.	.RAPKSSPDH	QNLVPKQPFS	.RTNGNPTGP	KEKKK. VASK
AJ_BW_98_B	GRKKRRQRR.	.GTPQDRKDH	QNPVPRQPLP	TTRG.NPTGP	KESKKEVESK
B AU VH		.TAPPGNKNH		.QTQRKSTGP	EESKKEVESK
B CN RL4	GRKKRRORR.	.RAPEDSQTH	QVSLSKQSAP	OPRGD PTGD	KECKKKKIROK
B_DE_86_D3	GRKKRRORR.	KAPQDSQTH	QASLSKQPAS	QPRGD.PAGP	KESKKKVESE
B_DE_86_HA	GRKKRRORR.	.remppoott (	2VSLSKOPAS	QPRGD.PTGP	KESKKKVETE
	GRKKRRORR.	.RAPQDSQTH (	QVSLPKOPSS	QQRGD.PDSP	KKSKKKVEPE
B_FR_83_HX B GA OYI	GRKKRRORR.	.RAHQNSQTH (	QASLSKOPTS	QPRGD.PTGP	KE. KKKVEDE
	GRKKRRORR.	.RAPQDSKTH (	QVSLSKOPAS	QPRGD.PTGP	KESKKKVEPE
B_GBCAM B_GB GB8	GRKKRRORR.	.RTPQSSKTH (	DASLSKOPAS	OFOGD PTGP	VECVVVVV
	GRKKRRORR.	.RLPEDSQIH (	QVSLPKOPTS	OPOGD PTGP	KECKKKKKKOK
B_GB_59_MA	GRKKRRQRR.	.RAPPDSQTR (	QVSLSKQPTS	QPRGD PTGP	EESKKKVEPE
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  B KR
         WK
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 B TW
         TWC
 BUS
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         DH1
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             GRKKRRQRH. .RTPQSSQIH QDPVPKQPLS QPRRN.PTGP KESKKEVESK
F1_FI_93_F
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```
F2_CM_95_M GRKKRRQRR. .RTPQSGEVH QDPVSKQPLS QTRGD.PKGP EESKKKVESK
 F2_CM_95_M GRKKRQRR. .RTPQSGEVH QDPVSKQPLS QTRGD.PKGP EESKKKVESK F2KU_BE_94 GRKKRQRR. .RTPQSSQAH QNPISKQPLS QARGD.PTGP KEPKKEVESK G_BE_96_DR GRKKRKHRR. .GTPHSSKDH QTPVPKQPFS TTRG.NPTGP QESKKEVESK G_NG_92_92 GRKKRPRR. .GTPQSSKDH QNPVPKQPLP ITSG.NPTGS EKPKKEVASK G_SE_93_SE GRKKRKHRR. .GTPQSSKGH QDPVPKQPLP TTRG.NPTGP KESKKEVASK H_BE__VI9 GRKKRQRR. .GTPKSLQDH QTLIPKQPLS .RTSGDPTGP EKKKK.VASK .ATPASVQDH QNHIPKQPLS .RTRGDPTGP KEKKK.VASK .ATPASVQDH QNHIPKQPLS .RTRGDPTGP KEKKK.VASK .RTPASLQDH QNSISKQPLS .RTHGDPTGP KEQKKEVASK .RTPASLQDH QNSISKQPLS .RTHGDPTGP KEQKKEVASK .SAPPGSKTH QDLIPKQPLS .QTQRKPTGP EESKKEVESK .SAPPGSKNH ODLIPEOPLE .OTORKPTGP EESKKEVESK
 J_SE_94_SE GRKKRRQRR. .SAPPGSKNH QDLIPEQPLF .QTQRKPTGP EESKKEVESK
 K_CD_97_EQ GREKRRORT. .TTPYASKNH KDPIPKQPLP .QARGDPTGP KESKKEVESK
 K_CM_96_MP GRKKRRPRR. .TTPYNSENH QDPLRKQPLS .QPRGEQTDP KESKKKVESK
 N_CM_95_YB GRKKRSQRR. .RTPQSSKSH QDLIPEQPLS .QQQGDQTGQ KKQKEALESK
 O_CM__ANT GRKK...RGR PAAAS.HPDH KDPVPKQSPT ITK.RKQERQ EEQEEEVEKK
 O_CM_91_MV GRKK...RRR PAAAASYPDN KDPVPEQSLS HTG.RKQKRQ EEQEKKVEKE
 O_SN__99S GRKK...RRR PAAAARHPDN QDIVPEQLTY ITN.RKQKRQ EEQEKEVENE
        995 GRKK...RRR PAAAARNPDN QDIVPEQPPP ITNNRKHKRQ EEQEKEVEKE
 O_SN
 U_CD___83C GRKKRGKRR. .RTPQSGPNH QNIVSKQPSS QPRGD.PTGQ EEPKKKVEKK
                 101 108
 00BW0762_1 TETDPFD.
 00BW0768_2 TKTDQFD.
 00BW0874_2 TKTDQFD.
 00BW1471_2 TEADPCD.
 00BW1616_2 TETDPFD.
 00BW1686 8 TKTDPFD.
 00BW1759 3 TETDRFD.
 00BW1773_2 TETDPD..
 00BW1783 5 TETDPFD.
 00BW1795 6 TETDPFD
 00BW1811_3 TETDPD...
 00BW1859 5 TETDPYD.
 00BW1880 2 TETNPFD.
 00BW1921 1 TEADOFD.
 00BW2036 1 TEADRFD.
 00BW2063 6 TETDPFD.
 00BW2087 2 TERDPFD.
 00BW2127_2 TTTDPFD.
00BW2276 7 TETDPYD.
00BW3819 3 TKTDPFD.
00BW3842_8 TETDRFD.
00BW3871_3 TKTDQFD.
00BW3876 9 TKADPFD.
00BW3886 8 AETDQFDY
00BW3891 6 TETDPFA.
00BW3970 2 TERDPFA.
00BW5031 1 TETDPFDW
 96BW01B21 TKTDPFD.
   96BW0407 TEADPFD.
   96BW0502 TEADPFA.
 96BW06 J4 TETDQFD.
 96BW11 06 TETDOFD.
  96BW1210 TETDPFD.
 96BW15B03
                TETDRFD.
 96BW16 26 TETDPCD.
 96BW17A09
               TEADPFD.
 96BWM01_5
               TKTDOFD.
 96BWM03_2
               TETDPFD.
98BWMC12_2
               TKAHPFD.
98BWMC13_4
               TETDQFD.
98BWMC14_a TDTDQFA.
```

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98BWMO14_1 TETDPCA.
  98BWM018 d TETDOFD.
  98BWMO36_a TETDPFD.
  98BWMO37_d TETDPFD.
99BW3932_1 TETDPFD.
99BW4642_4 TETDPFD.
99BW4745_8 TEPDPCD.
99BW4754_7 TETDPFD.
 99BWMC16_8 TEADRFD.
A2_CD___97 AETDRFD.
A2_CY__94 AETDRFD.
A2D___97_9 AETDPDD.
 A_BY_97_97 AETDQFD.
A_KE_93_Q2 AEADRFD.
 A_SE_93_SE AETDRFD.
 A_SE_94_SE AEADRFD.
 A_SE_94_SE AETDRFD.
 A_SE_95_SE TEADRED.
 A_SE_95_SE TETDRFA.
 A_SE_95_UG AETDRFA.
 A_UG_85_U4 AKTDRFA.
 A_UG_92_92 TEADRYA.
 AC_IN_95_2 AKTORFD.
 AC_RW_92_9 TEADPFD.
 AC_SE_96_S TETDRFD.
 ACD_SE_95_ AETDRFD.
 ACG_BE___V TETHPLA.
 AD_SE_93_S AEADQFDW
 AD_SE_95_S TEPDRFD.
 ADHK_NO_97 TXTDPFDW
 .ADK_CD_85_ AEADQFDW
 AG BE VI TETHPGD.
 AG_NG_92_9 TETDQCA.
 AGHU GA
            AEADPFDW
 AGU_CD_76_
              TETDPFAW
 AJ_BW_98_B AKPDRFD.
 B_AU___VH_
              TETNPSD.
 B_CN__RL4 TETDPRD.
B DE 86 D3 TETDPID.
B DE 86 HA TEADPFD.
B_FR_83 HX TETDPFD.
B_GA_OYI TETDPED.
B GB CAM TETHPGD.
B GB GB8 TETDPSDW
B_GB_59_MA TETDPVA.
B KR WK
             TVVDPVT.
B_NL_86_32 TETDPVD.
B_TW__TWC TETDPNDO
B_US__DH1 TETDPVH.
B_US P89
             TETDPVH.
B_US_83_RF
             TETDPAVQ
B_US_83_SF
             TETDPFD.
B_US_84_MN TETHPVD.
B US 86 JR TETDPDN.
B_US_86_YU TETDPVH.
B_US_87 BC TETDPVD.
B US 88 WR TETDPIA.
B_US_90_WE TETDPED.
BF1 BR 93
             AKTDPD..
C BR 92 92
             TETOPFD.
```

```
C_BW_96_96 TETDPFD.
C_BW_96_96
           TETDQFD.
C_BW_96_96
            TETDPFD.
C_BW_96_96
            TETDRFD.
C_ET_86_ET AETDPYA.
C_IN_93_93
           TKTDPFD.
C IN 93 93 AKTDPFA.
C IN 93 93
           TKTDPFA.
C_IN_94_94
            TTSDPFD.
C_IN_95_95
            TKTDPFD.
CRF01 AE C
           AKTDPFA.
CRF01 AE C
           AETDPDW.
CRF01 AE C
           TKTDPCA.
CRF01 AE T
           AETDQCD.
CRF01 AE T
           AETDPCD.
CRF01 AE T AETDPCD.
CRF01 AE T AETDPCD.
CRF01 AE T AETDPD..
CRF01 AE T AETDQCD.
CRF02 AG F
            TETDOGD.
CRF02 AG F
            TKTDPCD.
CRF02 AG G
            TETDPFA.
CRF02 AG N
            TKTDPCD.
CRF02_AG_S
            TETDPCD.
CRF02 AG S
            TETGPCD.
CRF03 AB R
            TETHPFD.
CRF03 AB R TETHPFD.
CRF04_cpx_
            TEADPFA.
CRF04_cpx_
            TEADPFD.
CRF04_cpx_
            TESNPFD.
CRF05 DF B
            TEADQFDW
CRF05 DF B AETDPFDC
CRF06_cpx_
           AEPDRFD.
CRF06_cpx_
           AEPDRFD.
CRF06_cpx_
            AETDRFD.
CRF06_cpx_
            TEPDRFD.
CRF11_cpx_
           AEPDRFD.
CRF11 cpx
            AEPAPFD.
D_CD_83_EL
           AETDPDC.
D_CD_83_ND
          AETDPFDW
D_CD_84_84
            TEVHPFDW
D_UG_94_94
            TEADPFDW
F1 BE 93 V
           AKTDPCA.
F1_BR_93_9
           AKTDPD..
F1_FI_93_F
           AKTDPCD.
F1_FR_96_M
           TETDPFD.
F2 CM 95 M
           TKTDPSD.
F2KU BE 94
           TETDPLD.
G_BE_96_DR TETDPFD.
G_NG_92_92
           TETDPLD.
G_SE_93_SE AEADQCD.
H_BE__VI9
           TETDPFDW
          TEADPCD.
H_CF_90_90
           TETDPD..
J_SE_93_SE
           AEPDRFD.
J_SE_94_SE
          AEPDRFD.
K_CD_97_EQ
           TKTDPD..
K_CM_96_MP
           TKTDQFD.
N_CM_95_YB
           TEADPCD.
O_CM__ANT
           AGPGGYPR
O_CM_91_MV TGPSGQPC
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O_SN_	99\$	ACP.RYPG
o_sn_	995	TGSDRYPR
דד כים	830	משמחיייייי

Table 17. HIV Vif Sequence Alignment GCG Multiple Sequence File. Written by Omiga 1.1

Name: 00BW0762 1 194 Check: 4675 Weight: Len: Name: 00BW0768 2 1.00 194 Check: 4961 Weight: 1.00 Len: Name: 00BW0874 2 194 Check: 3755 Weight: 1.00 Len: Name: 00BW1471_ 194 Check: 3843 Weight: 1.00 Len: Name: 00BW1616_2 194 Check: 4613 Weight: 1.00 Name: 00BW1686 8 194 Check: 4096 Weight: 1.00 Name: 00BW1759_3 194 Check: 3523 Weight: 1.00 Name: 00BW1773_2 194 Check: 4446 Weight: 1.00 Name: 00BW1783_5 194 Check: 3151 Weight: Name: 00BW1795_6 1.00 194 Check: 4892 Weight: Name: 00BW1811_3 1.00 194 Check: 3877 Weight: 194 Check: 3290 Weight:
194 Check: 3290 Weight:
194 Check: 2555 Weight:
194 Check: 4284 Weight:
194 Check: 4019 Weight:
194 Check: 4165 Weight:
194 Check: 5068 Weight:
194 Check: 5231 Weight:
194 Check: 5469 Weight:
194 Check: 5547 Weight:
194 Check: 1251 Weight:
194 Check: 4197 Weight:
194 Check: 4197 Weight:
194 Check: 3487 Weight:
194 Check: 4432 Weight:
194 Check: 4432 Weight:
194 Check: 5175 Weight:
194 Check: 3845 Weight:
194 Check: 3845 Weight:
194 Check: 3711 Weight:
194 Check: 3711 Weight:
194 Check: 4602 Weight:
194 Check: 5108 Weight:
194 Check: 5108 Weight: Name: 00BW1859_5 1.00 194 Check: 3290 Weight: Name: 00BW1880_2 1.00 Name: 00BW1921_1 1.00 Name: 00BW2036_1 1.00 Name: 00BW2063_6 1.00 Name: 00BW2087 2 1.00 Name: 00BW2127_2 1.00 Len: Name: 00BW2128 3 1.00 Len: Name: 00BW2276_7 1.00 Len: Name: 00BW3819 3 1.00 Len: Name: 00BW3842_8 1.00 Len: Name: 00BW3871 3 1.00 Len: Name: 00BW3876 9 1.00 Len: Name: 00BW3886 8 1.00 Len: Name: 00BW3891 6 1.00 Len: Name: 00BW3970 2 1.00 Len: Len: Name: 00BW5031 1 1.00 Name: 96BW01B21 1.00 Len: Name: 96BW0407 1.00 194 Check: 5108 Weight: Len: 1.00 Name: 96BW0502 194 Check: 4385 Weight: Len: Name: 96BW06_J4 1.00 Len: 194 Check: 5371 Weight: Name: 96BW11_06 1.00 Len: 194 Check: 6037 Weight: Name: 96BW1210 1.00 Len: 194 Check: 4343 Weight: Name: 96BW15B03 1.00 Len: 194 Check: 5690 Weight: 1.00 Name: 96BW16 26 Len: 194 Check: 4471 Weight: 1.00 Name: 96BW17A09 194 Check: 3907 Weight: Len: Name: 96BWMO1 5 1.00 194 Check: 5608 Weight: 1.00 Len: Name: 96BWMO3 2 194 Check: 3079 Weight: 1.00 Len: Name: 98BWMC12 2 194 Check: 5336 Weight: 1.00 Len: Name: 98BWMC13 4 194 Check: 5304 Weight: 1.00 Len: Name: 98BWMC14 a 194 Check: 3984 Weight: Len: 1.00 Name: 98BWM014 1 194 Check: 2480 Weight: 1.00 Len: Name: 98BWM018 d 194 Check: 2801 Weight: 1.00 Len: Name: 98BWM036_a 194 Check: 3762 Weight: 1.00 Len: Name: 98BWM037 d 194 Check: 4971 Weight: 1.00 Len: Name: 99BW3932 1 194 Check: 4971 Weight: 194 Check: 4165 Weight: 194 Check: 2912 Weight: 194 Check: 5323 Weight: 194 Check: 3964 Weight: Len: Name: 99BW4642_4 1.00 Len: Name: 99BW4745_8 1.00 Len: Name: 99BW4754 7 1.00 Len: Name: 99BWMC16_8 1.00 194 Check: 6325 Weight: Len: Name: A2 CD 97CD 1.00 194 Check: 5849 Weight: Len: Name: A2_CY_94CY Len: 194 Check: 5097 Weight: 1.00 Name: A2D 97KR Len: 194 Check: 3871 Weight: 1.00 Len: 194 Check: 5705 1.00 Name: A2G CD 97C Weight: Name: A_BY_97BL0 1.00 Len: 194 Check: 8467 Weight: 1.00 Name: A_KE_Q23_A 194 Check: 5053 Len: Weight: 1.00

Name : A GD GD GD					
Name: A_SE_SE659 Name: A_SE_SE725	Len:	194			1.00
Name: A_SE_SE/25 Name: A_SE_SE753	Len:	194		<b>_</b> ·	
Name: A_SE_SE853	Len:	194			1.00
Name: A_SE_SE889	Len:	194		<b>J</b>	
Name: A_SE_UGSE8	Len:	194		3	1.00
Name: A_UG_92UG0	Len: Len:	194		J	1.00
Name: A_UG_U455	Len:	194 194		J	1.00
Name: AC_IN_2130	Len:	194		J	1.00
Name: AC_RW_92RW	Len:	194		J	1.00
Name: AC_SE_SE94	Len:	194		J	1.00
Name: ACD_SE SE8	Len:	194			1.00
Name: ACG_BE_VI1	Len:	194		<b>3</b>	1.00
Name: AD_SE_SE69	Len:	194			1.00
Name: AD_SE_SE71	Len:	194			1.00
Name: ADHK_NO_97	Len:	194			1.00
Name: ADK_CD_MAL	Len:	194			1.00 1.00
Name: AG_BE_VI11	Len:	194			1.00
Name: AG_NG_92NG	Len:	194			1.00
Name: AGHU_GA_VI	Len:	194		Weight:	1.00
Name: AGU_CD_Z32	Len:	194		Weight:	1.00
Name: AJ_BW_BW21	Len:	194		Weight:	1.00
Name: B_AU_VH_AF Name: B_CN_RL42_	Len:	194		Weight:	1.00
Name: B_DE_D31 U	Len:	194	Check: 6101		1.00
Name: B_DE_HAN_U	Len:	194	Check: 3568		1.00
Name: B_FR_HXB2	Len:	194	Check: 6199		1.00
Name: B_GA_OYI	Len:	194	Check: 4714	Weight:	1.00
Name: B GB CAM1	Len: Len:	194	Check: 4534		1.00
Name: B_GB_GB8 A	Len:	194	Check: 4796	Weight:	1.00
Name: B_GB_MANC	Len:	194 194	Check: 6277	Weight:	1.00
Name: B_KR_WK AF	Len:	194	Check: 4800 Check: 3856	Weight:	1.00
Name: B_NL_3202A	Len:	194	Check: 3856 Check: 4181	Weight:	1.00
Name: B_TW_TWCYS	Len:	194	Check: 5670	Weight:	1.00
Name: B_US_BC_L0	Len:	194	Check: 4644	Weight: Weight:	1.00
Name: B_US_DH123	Len:	194	Check: 5023	Weight:	1.00
Name: B_US_JRCSF	Len:	194	Check: 6235	Weight:	1.00
Name: B_US_MNCG_	Len:	194	Check: 2067	Weight:	1.00
Name: B_US_P896_	Len:	194	Check: 6322	Weight:	1.00 1.00
Name: B_US_RF_M1	Len:	194	Check: 5045	Weight:	1.00
Name: B_US_SF2_K	Len:	194	Check: 3723	Weight:	1.00
Name: B_US_WEAU1	Len:	194	Check: 4222	Weight:	1.00
Name: B_US_WR27_	Len:	194	Check: 7503	Weight:	1.00
Name: B_US_YU2_M Name: BF1 BR 93B	Len:	194	Check: 5093	Weight:	1.00
	Len:	194	Check: 4341	Weight:	1.00
Name: C_BR_92BR0 Name: C_BW_96BW0	Len:	194	Check: 5265	Weight:	1.00
Name: C_BW_96BW1	Len:	194	Check: 5846	Weight:	1.00
Name: C_BW_96BW1	Len:	194	Check: 3799	Weight:	1.00
Name: C_BW_96BW1	Len: Len:	194	Check: 4343	Weight:	1.00
Name: C_ET_ETH22	Len:	194	Check: 5690	Weight:	1.00
Name: C_IN_93IN1	Len:	194 194	Check: 4205	Weight:	1.00
Name: C_IN_93IN9	Len:	194	Check: 3033	Weight:	1.00
Name: C_IN_93IN9	Len:	194	Check: 3201 Check: 4905	Weight:	1.00
Name: C_IN_94IN1	Len:	194		Weight:	1.00
Name: C_IN_95IN2	Len:	194	_	Weight:	1.00
Name: CRF01 AE C	Len:	194	Check: 3351 Check: 6355	Weight:	1.00
Name: CRF01_AE_C	Len:	194	Check: 8335 Check: 2596	Weight:	1.00
Name: CRF01_AE_C	Len:	194	Check: 2596 Check: 4412	Weight: Weight:	1.00
Name: CRF01_AE_T	Len:	194	Check: 5882	Weight:	1.00
Name: CRF01_AE_T	Len:	194	Check: 5558	Weight:	1.00
_ <del>_</del>		- <del>-</del>		cranc:	1.00

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50
00BW0762_1 MENRWQVLIV WQVDRMKIRT WNSLVKHHMY VSKRANGWFY RHHYESRHPK
00BW0768_2 MENRWQGLIV WQVDRMKIRT WNSLVKHHMY VSRRANGWFY RHHYESRHPK
00BW0874_2 MENRWQVLIV WQVDRMKIRA WNSLVKHHMY ISRKASGWFY RHHYESRHPK
00BW1471_2 MENRWQVLIV WQVDRMKIRT WNSLVKHHMY ISRRAKGWVY RHHYESRHPR
00BW1616_2 MENRWQVLIV WQVDRMRIRT WNSLVKHHMY VSRRASGWFY RHHYESRHPK
00BW1686_8 MENRWQVLIV WQVDRMKIRT WNSLVKHHMY ISRRASGWSY RHHYESRHPK
00BW1759_3 MENRWQVLIV WQVDRMKIRT WNSLVKHHMY ISKRAKGWLY RHHYENRHPK
00BW1773_2 MENRWQVLIV WQVDRMKIKT WNSLVKHHMY VSKRAKGWFY RHHYESSHPR
00BW1783_5 MENRWQVLIV WQVDRMRIRT WNSLVKHHMY ISKKARGWFY RHHYESRHPK
00BW1795_6 MENRWQVLIV WQVDRMKIRT WNSLVKHHMY VSRKANGWFY RHHYESRHPK
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OOBMISIT -	MENRWQVLIV	WQVDRMKIKI	WNSLVKHHM	ISKKAKGWFY	RHHVESDNDV
	. INTRICUE ANT A	MOADKINT K.I	· was location	7 TODIEN 12011 11 11 11 11 11 11 11 11 11 11 11 11	* ************************************
00BW1880_2		"ATDKINTKI	WNSLVKUUM	TODDAGGEORY	
00BW1921_1		"ATDUMTKI	WINSTOVKHUMN	TODDANGER	* ************************************
00BW2036_1	· Innitiation States A	" A A D KINK T K T.	WNSLVKHHM	こくしんしょ ひんけいしゃ	Difficulties on the second
00BW2063 6	MENRWOGLIV	WOVDRMRTRT	WINGT TAKETHAN	TODDARGWEY	KHHYDSRHPK KHHFESRHPK
00BW2087 2		MONDAMALDA	MUDIAN TOWN	ISRRASGWFY	RHHYDSRHPK
00BW2127_2	MENRWOVITY	MUMBACKING . MUMBACKING .	MINDLANDE	ISRRAAGWFY	RHHYDSRHPK RHHYESRNPR
00BW2128 3		MOMDE THE WORLD	MNSTAKHHWA	TSKKATGWFY	RHHYESRNPR RHHYESRHPK
00BW2276 7	**************************************	MANDKIMKTKI	WNSIVKHTMV	ていていいかかけいかい	·
00BW3819 3	**************************************	MANDWINTKI	WNSLVKHHMV	TCDDMMMinu	DITTIMO
		" NO VOICEMANTE	WASLAKHIMD	「 TCVO ス ンン/にょっゃ	D. T. T. T. T. T. T. T. T. T. T. T. T. T.
00BW3842_8	- marine (1, 55, 277, 7, A	MONDKRIKTKI	WNSLVKHHMV	TODDACCOMOV	Diring on an are
00BW3871_3	**************************************	MOADKMKTKT	WNSLVKHHMV	TCDDACOMBL	D. T. W. T. T. T. T. T. T. T. T. T. T. T. T. T.
00BW3876_9					
00BW3886_8	*	MOADWHTKI.	WNSLIVKHEMO	* TOVD 3 STATES	T-1
*	* 1 TOTAL CAL & A LIT A	MOADKMVTKI.	WNSLVKHHMV	`` ***********************************	Direction of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont
00BW3970_2					
00BW5031 1	MDNRWQGLIV	TOTTEMETVOW	MACE AMERICA	VSRRASGWEY	RHHFESRHPK
96BW01B21	MENRWOVITY	MOMOTOR	MMOTAKEMA	VSRRANGWFY	RHHHESRHPK
96BW0407		MOMMALL	MMSTAKHWA	VSRRASGWFY	RHHFESRHPK
96BW0502	MENDWOVI.TV	MOADMIKTKI	MNSLVKHHMY	VSKKAKGWFY	RHHYESRHPR
96BW06 .T4					
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C_IN_95IN2	MENRWOVITY	MOMDAMATEM	MNSLVKHHMY	VSRRANGWFY	RHHYDSRNPK
CRF01 AE C	MENRWOVMTV	MOMDEMBER	MUSTAKHHMA	VSRRANGWFY	RHHYESRHPK
CRF01_AE_C	MENRWOVMTV	MOMDAMATKI	MICHARDA	ISKKAKNWFY	RHHYESRHPK RHHYESQHPK
CRF01 AE C	MENRWQVMIV MENRWOVMIV	WOMDEWALKE	MINOTAKHMA	SSKKAAKWFY	RHHYESQHPK
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CRF01_AE T	MENRWQVMIV MENRWQVMIV	WRVDRMRTRT	MNSTAKHMA	ISKKAKKWFY	RHHYESQHPK
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CRF02_AG_F	MENRWQVMIV MENRWQVMIV MENRWQVMIV	WOVDRMRTRT	AMETAN VERMINA	TORKAKNWFY	RHHFESRHPK
CRF02_AG_G	MENRWOVMIV	MONDEMBIDE	MMC1'AMAMANA.	TORKAKNWFY	RHHFESRHPK
CRF02_AG_N	MENRWQVMIV MENRWQVMIV MENRWQVMIV	WOVDRMPTPT	MMCTANATIONS	VSKKAKDWFY	RHHYESRHPK
CRF02_AG_S	MENRWQVMIV	WOVDRMPTDT	MUSTANAMA	VSKKAKGWFY	RHHFESRHPK
CRF02_AG_S	MENRWQVMIV	WOVDRMPTOT	WHOTAVATHMY	NOKKAKDWFY	RHHYESSHPR
CRF03_AB_R	MENRWOVMIV	WOVDRMRTON	MMCTAVATHMY	VSKKAHRWFY	RHHYESRHPK
CRF03_AB_R	MENRWQVMIV MENRWQVMIV	MONDEMBIDE	MUGITAMATA	ISKKARGWVY	KHHYESRNPR
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  CRF05_DF_B MENRWQVMIV WQVDRMRINT WKSLVKYHMH VSKKANRWCY RHHFESRNPR
  CRF05_DF_B MENRWQVMIV WQVDRMRINT WKSLVKYHMH VSKKTKAWFY RHHYESRHPR
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 O_CM_MVP51 MENRWQVLIV WQIDRQKVKA WNSLVKYHKY MSKKAANWRY RHHYESRNPK
 O_SN_99SE_ MENRWQVLIV WQVDRQRVKT WNSLVKYHKY RSGKTRDWYY RHHFESRNPR
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 U_CD__83C MENRWQVMIV WQVDRMRIKT WNSLVKHHMY ISKKAKGWVY KHHYESTNPR
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00BW2127_2
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00BW5031 1	TOSEAUTER	E. WKTTIKIA	G.LQTGEGDW	HLGHGCSIEW	RLRKYSTQVD
96BW01B21	ADDRAUTEDG	D.WKPATKLA	WGLHTGERDW	MT.CHCVCTEM	DIDDVAMOTA
96BW0407	VECEVITATO	E.AKTATKIA	WGLQTGEREW	HLGHGVSIEW	RLRRYSTQVD
96BW0502	ADDEAUTERG	D. AKTATKLA	WGLOTGERDW	WI.CUCVETON	DIDOVOROIM
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96BWMO1_5 96BWMO3 2	TOORAUTENG	D.WKTATKIA	MC4UNTCEDDM	UI.CUCTOTA	DIDICIONAL
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98BWMC12_2	ACCRATTERG	V. HKTI A T.T.I.A	MC4POLCEDDM	HIGHOUGH TON	DI DICKOMATA
98BWMC13_4	TOORAUTENG	D. MKTI A T K.I.A	พเสเพาเสยาพ	UT.CUCTOR	DI DIGICOSCO
98BWMC14_a	ACCRAUTEDG	TO WITH A TITLY	WGGGGGGGGW	TICUCA OTOM	DIDDIGMOS
98BWM014_1	TOORTHIELDG	E. WKTATKI.A	WGLNTGERDW	HICHGUCTEW	DMDGVGGGt
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98BWM036_a	TRREATTATG	D.ARLVVKTY	WGLOTGERDW	HIGHGUGIEW	DI DDVamorm
98BWM037_d	ADDRAUTEDG	D.WKPITIKI.X	WGLOTGERDW	HIGHGCGTEW	DIDDVomorm
99BW3932_1	ASSEAUTATIG	E.AKTATKLA	WGLOTGEKDW	HI.CUCUCTEW	DI KDMOROTE
99BW4642_4	ADORAUTEDG	E.WKTTAKAA	WCLOTCEDEM	UT.CUCUCTER	DI DDIIGO
99BW4745_8	PILTINGOOA	E. WKTAT.L.I.A	WGLLPGEREW	HICHCUCTEW	DIDDUGMOTO
99BW4754_7	TOORAUTETIK	D. AKTATKIA	MCGEDTHIFIM	UT.CUCTOR	DI CDIICOS
99BWMC16_8	SHATTA	D.WKPATLLA	WGLHTGEREW	HI.CHCVCTIM	DIDDICATO
A2_CD_97CD	ASSEAUTER	E.ARLIVRTY	MGLHPGEKDW	ULCUCUCTOM	DOGDWARA
A2_CY_94CY	TOORAUTEDG	E WKII VKIY	WGLHTGEKNW	HT.CHCUCTEM	DOMDARITO TO
A2D97KR	ADDRAUTERG	G.WYTIAKIA	WGLHPGEKDW	HT.COCVCTPW	DODDMamara
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. A_BY_97BL0	ADDRAITEDG	D. AKTA AKTA	XCHLHAXEKDW		DODUZZONO-
A_KE_Q23_A	ADDRAITTEIG	D.AIDAAKAA	WC+LHTC+RKTNW	UT.CUCKCTOK	DI IDIICAA
A_SE_SE659	ADORATTETIG	D.WURAKI.A	WGUHTGEREW	UT CUCKET THE	DI MONGO
A_SE_SE725	TSSEVHIPLG	D.ARLVVRTY	WGLHTGEKDW	OL'GRGASTEM	KTWKISIÖID
A_SE_SE753	ADDRATTEDG	D.WKDAAKTA	WGLOTGERDW	HT.CHCUCTEM	DI Imiamore
A_SE_SE853	VSSEVHIPLG	E.AKLVVRTY	WGLQTGEKDW	OLGUGUGTEM	RLKKYSTQID
A_SE_SE889	VSSEVHIPLG	E.ARLVVRTY	WGLQTGEKDW	DI CHCACLEM	RERRYSTQID
A_SE_UGSE8	VSSEVHIPLG	D. ARLIVRTY	WGLHPGERDW	OLCHOVOLEM	RLRRYSTQID
A_UG_92UG0	VSSEVHIPIG	D. ARIVVRTY	WGLQTGEKDW	ULGUGVSIEW	RLRRYSTQID
A_UG_U455	VSSEVHIPLG	E. ARLVVRTY	WGLHTGEKDW	HIGHGVSIEW	RLKRYSTQID
AC IN 2130	VSSEVHIPLG	E.AKT.VTKTY	WGLQTGERDW	HLGHGVSIEW	RLKRYSTQVD
AC RW 92RW	ISSEVHIPLG	E. ARI VIKTY	WGLQTGERDW	HLGHGVSIEW	RLRRYSTQVE
AC_SE_SE94	TSSEVHIPLG	E. ARIVITTY	WGLQTGERDW	HLGHGVSIEW	RLRRYKTQVD
ACD SE SE8	ISSEVHIPLG	D. AKTIMPTV	MGTATGEKDM	HLGHGVSIEW	RLGRYRTQVD
ACG BE VI1	VSSEVHIPLG	D APTIMOTEV	WGLHTGEKDW	HLGHGVSIEW	RLRKYSTQID
AD_SE_SE69	VSSEVHIPLG VSSEVHIPLG	E VELYVILLE	WCI UMCERRA	QLGHGVSIEW	RQRRYSTQID
AD_SE_SE71	VSSEVHIPLG VSSEVHIPLG	D VKITADAA	WGLHTGERDW	HLGQGVSIEW	RKRRYSTQVD
ADHK NO 97	VSSEVHIPLG VSSEVHIPLG	D.WITAMAKII	WGLHTGEKDW	HLGHGVSIEW	RLRRYSTQID
ADK_CD_MAL	VSSEVHIPLG	D.WCTANCE	WGLQTGEKAW	HLGHGVSIEW	RQKRYSTQID
AG_BE_VI11	VSSEVHIPLG	D. WELLA AKIA	WGLQTGEKDW	HLGHGVSIEW	RQKRYSTQLD
AG_NG_92NG	VSSEVHIPLG	D.ARLIVVRTY	WGLHTGEKDW	HLGHGVSIEW	RQRRYSTQID
AGHU_GA_VI	VSSEVHIPLG	E.ARLIVVRTY	WGLHTGERDW	HLGQGVSIEW	KQRRYSTQID
AGU_CD_Z32	ADDRAITTEIG	D. WKTATKIA	WGLHTGERDW	HIGOGVSTEW	PROPVOMOTO
AJ_BW_BW21	TOODAITEDE	C.WVTA ALLA	WGLHTGEREW	HT.COCVETEW	DI DDWDMAtm
B_AU_VH_AF	TOODAITTEIG	O WETA ALLA	WGLNTGEREW	HI.COCI.CIEM	DI KIDKIMATA
	TOOD ATTITUE	P. WKTIAT.L.A.	WGLHTGFRDW	HT.COCVETEM	DVDDVamorm
B_CN_RL42_	TOODAITENG	D. WKTATILA	WGLHTGERDW	HICOCUCTEM	DVVDVamova
B_DE_D31_U	TOOMALTERG	D. WKTATILLA	WGLHTGERDW	OLCHCVSTRW	DKKDAGuotu
B_DE_HAN_U	ADDRAILEDG	E. WVT\ATJ.I.X	WGLHTGERDW	HIGOGDSTRW	DKDDVcmOtm
B_FR_HXB2_	TODE AUTEMO	D. WKTAT.I.I.A	WGLHTGERDW	HLGOGVSTRW	DKKDVemotm
B_GA_OYI	ISSEVHIPLG	D.ATLVVTTY	WGLHTGEREW	HLGQGASIEW	RKKRYSTOVD

D CD CAM1	TOCHMITTI				
B_GB_CAM1_	ISSEVATPLG	E.ARLVVTTY	WGLHTGERDW	HLGQGVSIEW	RTKGYNTQVD
B_GB_GB8_A	ISSEVHIPLG	E.ARLVITTY	WGLHTGERDW	HLGQGVSIEW	RKRRYRTQVD
B_GB_MANC_	ASSEAHIBEG	D.AKLVIKTY	WGLHTGERDW	HIGOGASTEW	DKKGVGTOVD
B_KR_WK_AF	TRREATTER	D.AKLVITTY	WGLHTGEREW	HLGOGVSTEW	PKKBAMLUM
B_NL_3202A	TOORANTLACG	E.ARLVITTY	WGLHTGERDW	HIGOGVSTRW	DKKDAGAUM
B_TW_TWCYS	TSSEAHIBTG	D.ATLVITTY	WGLHTGERDW	HLGOGVSTEW	PKPPVSTOW
B_US_BC_L0	TOPPANTANG	D.ARLVITTY	WGLHTGERDW	HLGHGVSVEW	PKKDVSTOVD
B_US_DH123	TSSEAHTERG	D.ASLVVTTY	WGLHTGERDW	HLGOGVSTEW	PKPPVSTOW
B_US_JRCSF	VSSEVQIPLG	D.ARLVITTY	WGLHTGERDW	HLGQGVSMEW	DADDAGAOAD
B_US_MNCG	ISSEVHIPLG	D.ARLVITTY	WGLHTGERDW	HLGQGVSIEW	KIKKISIÕAD
B US P896	ISSEVHIPLG	D.AKLVVTTY	WGIHTGERDW	HLGQGVSIEW	KKKKISIQVD
B_US_RF_M1	ISSEVHIPPG	D. ERLVITTY	MGI.HTGEDDW	HLGQGVSIEW	RKKRISTQVD
B US SF2 K	VSSEVHIPLG	D. AKT VITTY	WGI.HTGEREW	HLGQGVSIEW	RKRRYSTQVD
B US WEAU1	ISSEVHIPLG	E CKIVITTY	WCLUTCEDDW	HLGQGVAIEW	RKKKYSTQVD
B US WR27	TSSEVHTPLG	D AMINITORY	WCITTECEDE	HLGQGVSIEW	RKQRYSTQVD
B US YU2 M	TSSEVHIDLG	D WILLITIAN U	WGLHIGERDW	HLGQGVSTEW	RKQNYRTQVT
BF1_BR_93B	VSSEVETDLE	D. WILLIAM	WGLHTGERDW	HLGQGVSIEW	RKKRYSTQVD
C BR 92BR0	TOGETHING	E ADIVITTY	WGLHTGERDW	HLGQGVSIEW	RQGRYRTQID
C BW 96BW0	TOSEAUTER	E.AKDVIITY	WGLQTGERDW	HLGHGVSIEW	RLRRYSTRVD
	ASSEAUTEDE	D.ARLVIKTY	WGLQTGERDW	HLGHGVSIEW	RLRRYSTQVD
C_BW_96BW1	VSSEVHIPLG	E.ARLVIKTY	WGLHTGERDW	HLGHGVSIEW	TVRGYST.VD
C_BW_96BW1	VSSEVHIPLG	D.ARLVIITY	WGLQTGEREW	HLGHGVSIEW	RLRSYSTQVD
C_BW_96BW1	ASSEAHTAPG	E.ARLVIITY	WGLQT.EREW	HLGHGVSTEW	TVOTP2VGGJG
C_ET_ETH22	APPEANTAIG	E.ARLIIKTY	WGLQTGERDW	HLGHGVSIEW	RIBSYMTOWN
C_IN_93IN1	ASSEAHTATG	E.ARLVIKTY	WGLQTGERDW	HLGHGVSTEW	RI.BRVWTOTE
C_IN_93IN9	ASSEAHTEPG	E.ATLVIKTY	WGLOTGERDW	HIGHEVSTEW	DI.DDVNmote
C_IN_93IN9	TRREATTE	E.ARLVIKTY	WGLOTGERDW	HLGHGVSTEW	PT.PPVSTOVE
C_IN_94IN1	ASSEAHTSFG	E.AILVIKTY	WGLOTGERDW	HLGHGVSTEW	DI.DDVNTOTE
C_IN_95IN2	ASSEAHTEPG	E.ARLVITTY	WGLOTGERDW	HLGHGVSTEW	PLPKACAUCIE
CRF01_AE_C	VSSEVHIPIG	D.ARLVIRTY	WGLHTGEKDW	HLGHGVSIEW	DUDKAGAUM
CRF01_AE_C	VSSEVHIPLG	D.ARLIIRTY	WGLHTGEKDW	HLGHGVSIEW	DOD RGMOLD
CRF01 AE C	VSSEVHIPLG	E.ARLVIRTY	WGLHTGEKDW	HLGHGVSIEW	ROPEVEROTE
CRF01 AE T	VSSEVHIPLG	E.ARLVIRTY	MGIOTGEKDM	QLGHGVSIEW	MODIFICATO TO
CRF01 AE T	VSSEVHIPLG	E. ARLVIRTY	MGIOTGEKDM	QLGHEVSIEW	RORMISTOID
CRF01_AE_T	VSSEVHIPLG	E. ARIVIRTY	MCIOTCEKDM	QLGHGVSIEW	RORTYSTOID
CRF01 AE T	VSSEVHTPLE	E AKT.TTOTV	MCTOTOTION	QLGHGVSIEW	RORKYSTOID
CRF01 AE T	VSSEVHTPLG	E VDIVIDAA	MCIOGCERDM	HLGHGVSIEW	RORTYSTQID
CRF01 AE T	VSSEVHIDIG	E PKINILLA	MOTOTORY	HLGHGVSIEW	RORKYSTQID
CRF02_AG_F	VSSEVHIDLG	D ADITUDMY	MGTGTGEKDM	QLGHGVSIEW	RQRKYSTQID
CRF02_AG_F	VSSEVHIPLG	D.WKTIAKTA	WGLHAGERDW	HLGHGVSIEW	KQRKYSTQID
CRF02 AG G	ACCEANTLY	D.ARLIVRTY	WRLHAGERDW	YLGHGVSIEW	KQRKYSTQID
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	ASSEAUTIFIC	D.ARLVVRTY	WGLHTGERDW	HLGHGVSIEW	KQRRYSTQID
CRF02_AG_S CRF03_AB_R	PUCHTANGO	D.ATLIVRTY	WGLQPGERDW	HLGHGVSIVW	QQKRYSTQID
	ISSEANTED	D.AKLVIKTY	WGLHTGERDW	HLGQGASIEW	RKERYSTQVD
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CRF04_cpx_	ARREAGIATE	D.ARLVIRTY	WGLQPGEKDW	HLGHGVSMEW	RIPRASTOR
CRF04_cpx_	ASSEVATELG	E.AKLVVRTY	WGLQPGKKDW	HLGHGVSTXW	RIPSASLA
CRF05_DF_B	TSSEAHTLFG	D.AKLVVTTY	WGLHTGERDW	HLGOGVSTEW	DKDDAGAUUM
CRF05_DF_B	TRREATTE	E.AKLVIITY	WGLHTGEREW	HLGOGVSTEW	RKGRVSTOID
CRF06_cpx_	TOORANTER	S.AELVITTY	WGLNTGERKW	HLGOGVSTEW	T.PPVPTOVD
CRF06_cpx_	ASSEAHTEP	C.AELVITTY	WGLNTGERKW	HLGOGVSTEW	RIBRYPTOWN
CRF06_cpx_	TRREAUTHE	C.AELVVTTY	WGLNTGEREW	HIGOGVSTEW	DI.KKVDTOID
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D_CD_84ZRO	ISSEVHIPLG	D. ARLVVTTY	WGLHTGEPEW	HLGQGVSIEW	TATACTET TO A TO A TO A TO A TO A TO A TO A T
D_CD_ELI_K	ISSEVHIPLG	E. ARLVIKTY	WGT.HTCEDEW	HLGQGVSIEW	LYNNY CESTOND
D_CD_NDK_M	ISSEVHTPIC	E ARIAMPTV	WGI.HTGEKEW	HLGQGVSIEW	KKKKYSTQVD
D UG 94UG1	ISSEVHIDIG	E ABIANNAMA	MCT.DIPCEDER	HLGQGVSIEW	KKKKYSTQVD
F1 BE VI85	VSSEVHTDIE	E AKINIMAA	MCLUDCEDES	unedeastem	RKGRYNTQID
	TALL UE	~. AVMATITI	"GHULGEKEM	HLGQGVSIEW	KQGKYRTQID

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AC SE SE94	PGLADQLIHM	HYFDCFADSA	IRKAILGHIV	SPPCDVOACH	MENGOLOUT A
ACD SE SE8	PDPADQLIHL	HYFDCFSDSA	IRKAILGQVV	CDCDTOAGE	MKVGSLQYLA
ACG BE VI1	PDLADQLIHL	YYFDCFSDSA	IRKAILGQVV	DDDCEVOACU	MAYGOLOYT A
AD_SE_SE69	PGLADOLIHI	YYFDCFTESA	IRKAILGHIV	TOROTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF TH	MYAGSTÖATY
AD SE SE71	PDQADOLIHL	HYSNCFSESA	IRKAILGQVV	PERCENOMOTE	MKVGSLQYLA
ADHK NO 97	PDLADHLIHL	HYFDCFSDAV	IRKAILGQVV	NEWCEI ÓIGH	MKVGSLQYLA
ADK CD MAL	PDLADOLIHL	YYFDCFSESA	IRQAILGHIV	CDDCDVOACTI	NOVGSLOYLA
AG_BE_VI11	PDLADOLIHL	NYFDCFSDSA	IRKAILGQVV	BDBCEVORCH	NKVGSLQYLA
AG NG 92NG	PDLADOLIHL	HYFNCESESA	VRKAILGEVV	PDDCEVOROR	NKVGSLQYLA
AGHU GA VI	PGLADOLIHM	HYFDCFSDSA	IRKAILGQVV	RPRCEIQIGH	NOVGSLOYLA
AGU CD Z32	PGLADOLTHM	HYFDCFGFGA	IRKAILGHRV	RPRCEYSAGH	NQVGSLQYLA
AJ BW BW21	PGLADOLTHM	HYFNCESESA	IRKAILGHIV	SPRCEYQAGH	NKVGSLQYLA
B_AU_VH_AF	PGLADOLTHM	YYFDCFSFSA	IRNAILERIV	SPICEYQAGH	NKVGSLQYLA
B CN RL42	PGLADOLTHI	YYFDCFGFGA	IRNAILGRVV	SPSCEHQAGH	NKVGSLQYLA
B DE D31 U	PGLADOLIHI	AAADCAGAGY	TEMATIGEAA	SPSCDYQAGH	NKVGSLQYLA
B DE HAN U	PNIADOLITHI	VVFDCFGFGA	IRNAILGRIG	SPSCEYRAGH	NKVGSLQYLA
B FR HXB2	PELADOLIHI.	VVPDCPSESA	IRNAILGRIV	SPRCEYQAGH	SKVGSLQYLA
B_GA_OYI	PGIADOLTHT	VVEDCEGEGA	IRKALLGHIV	SPRCEYQAGH	NKVGSLQYLA
B_GB_CAM1_	PDI-ADOLITHI.	VVPDCPSESA	IRNAILGNIV	SPRCEYPAGH	NKVGSLQYLA
B GB GB8 A	DGI-VDOI-IHO	VVEDCESESA	IRKAIVGRLV	SPRCEYQAGH	NKVGSLQYLA
B GB MANC	DGI.ADOI.TUI.	VVPDCEGEGA	IRNALLGRTV	SPSCKYQAGH	NKVGSLQYLA
B KR WK AF	דעד.דערגיות	HAEDGEGE	IRNAILGHIV	SPRCEYQAGH	nkvgslqyla
B NL 3202A	DGI ADOLTHI.	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	IRHAILGHRV	RPKCEYQAGH	NKVGSLQYLA
B_TW_TWCYS	FOUNDOLIE	VVEDOFSESA	IRNAILGHVV	SPRCEYQAGH	NKVGSLQYLA
B_US_BC_LO	DULYDOL TEL	VVEDCESESA	IRKAIVGCRV	SPRCEYQAGH	NKVGSLQYLA
B_US_DH123	ENTANÓNIUM	TIPUCESESA	IRNAILGHIV	SPRCEYQAGH	NKVGSLQYLA
	ENTANOT TITE	ITTUCFSESA	IRNAILGHRV	SPRCEYQAGH	NKVGSLQYLA
B_US_JRCSF	PATIANOLITHE	YYFDCFSESA	IRNAILGHIV	SPRCEYOAGH	SKVGST.OVI.A
B_US_MNCG_	PDLWDHTTHL	HYFDCFSDSA	IRKAILGHRV	SPICEFOAGH	NKVGPLOVI.A
B_US_P896_	PGTADKTIHL	YYFDCFSDSA	IRKSILGHIV	SPSCEYOAGH	NKVGST-OVT-A
B_US_RF_M1	PDTWDOLIND	YYFDCFSESA	IRKPSLGHIV	SPRCEYOAGH	NKVGSI.OVI.A
B_US_SF2_K	<b>EGTADOPIHP</b>	HYFDCFSESA	IKNAILGYRV	SPRCEYOAGH	NKVGST.OVI.A
B_US_WEAU1	FDTWDÖPTHT	YHFDCFSESA	IRNAILGHLV	IPRCEYQAGH	NKVGSLQYLA

B_US_WR27_	PDLADQLIHR	YYFDCFSEPA	IRNTIVGRIV	SPRCEYQTGH	NKVGSLQYLA
B_US_YU2_M	PDPWDOPTHP	YYFDCFSESA	IRKAILGYRV	SPRCEYOAGH	MKVGSLOVI.A
BF1_BR_93B	PGLADQLIHI	YYFDCFSESA	IRKAILGHRI	SPRCDYOAGH	NKUGGI OVI.A
C_BR_92BR0	<b>PGPWDGPTHW</b>	HYFDCFADSA	IRKAILGHRV	SSRCDYOAGH	NKVGST-OVT.A
C_BW_96BW0	PGLADQLIHM	HYFDCFADSA	IRKAILGOIV	SPRCEYOAGH	MKVGGT.OVT.A
C_BW_96BW1	<b>PGTADOLIHM</b>	HYFDCFTDSA	IRKALLGOVV	IPRCDYOAGH	NKVGST.OVT.A
C_BW_96BW1	PGLADQLIHM	HYFDCFAGSA	IROAILGHIV	IPRCDYOAGH	KKV/GGT.OVT.A
C_BW_96BW1	PGLADQLIHM	YYFDCFAESA	IRKAILGHIV	IPRCNYOAGH	MKVGGI.OVI.A
C_ET_ETH22	PGLADHLIHM	HYFDCFAESA	IRKAILGYRV	SPRCDYOAGH	MKVGST.OVT.X
C_IN_93IN1	PGLADQLIHM	HYFDCFADSA	IRKAILGHIV	IPRCDYOAGH	NKVGST.OVI.A
C_IN_93IN9	PGLADQLIHM	HYFDCFTDSA	IRKAILGHIV	IPRCDYOAGH	MKVGST.OVT.A
C_IN_93IN9	PGLADQLIHM	HYFDCFADSA	IRKAILGHIV	IPRCDYOAGH	NKVGST.OVI.A
C_IN_94IN1	PGPADOLIHM	HYFDCFADSA	IRKAILGRIV	IPRCDYOAGH	NKTGGT,OVT.X
C_IN_95IN2	PGLADQLIHM	HYFDCFADSA	IRKAILGHIV	IPRCDYOAGH	NKVGSLOVIA
CRF01_AE_C	PDPWDKGTHP	QYFDCFSDSA	IRKAMLGOVV	RPRCEYPTGH	NKVGST.OVI.A
CRF01_AE_C	PDLADQLIHL	QYFDCFSDSA	IRKALLGOIV	RPRCEYPAGH	NKVGST.OVI.A
CRF01_AE_C	PDLADRLIHL	QYFDCFSESA	IRKAILGOVV	RPRCDYPEGH	NKVGSTOVIJA
CRF01_AE_T	PULADRLIHL	QYFDCFSDSA	IRRAILGOVV	RRRCEYPSGH	NKVGST.OVI.A
CRF01_AE_T	PDLADQLIHL	QYFDCFSDSA	IRKAILGOVV	RRRCEYPSGH	NKVGSTOVIA
CRF01_AE_T	PDLADQLIHL	QYFDCFSDST	IRRAILGOVV	RRRCEYPSGH	NKVGST.OVI.A
CRF01_AE_T	PDLADQLIHL	HYFDCFSDSA	IRRAILGOVV	RRRCEYPSGH	NKVGST.OVI.A
CRF01_AE_T	PDLADKLIHL	QYFGCFSDSA	IRKAILGOVV	RRRCEYPSGH	NKVGSLOVLA
CRF01_AE_T	PDLADQLIHL	QYFDCFSDSA	IRKAILGOVV	RRRCEYPSGH	NKVGSLOVI.A
CRF02_AG_F	PDLADQLIHL	HYFDCFAESA	IRKAILGEVV	RPRCEYQAGH	KONGST-OAT'Y
CRF02_AG_F	PDLADQLIHL	HYFDCFTDSA	IRKAILGOVV	SPRCEYQAGH	MOVGGT.OVI.A
CRF02 AG G	PDLADQLIHL	HYFTCFSESA	IRKAILGEVV	RPRCEYQAGH	MKAGGI OAT'Y
CRF02 AG N	PDLADQLIHL	YYFNCFSDSA	IRKAILGETV	RPRCEYQAGH	MKAGSTOATY
CRF02 AG S	PDLADQLIHL	HYFDCFSDSA	IRKAILGOTV	RPRCEYQAGH	TATA GET OAT Y
CRF02 AG S	PDLADQLIHL	HYFDCFSESA	IRKALLGOVV	RPKCEYQAGH	MKAGGI OAL M
CRF03 AB R	PNLADQLIHL	YYFDCFSESA	IRNATIGHRY	SPSCEYRAGH	MENGSHOLD
CRF03 AB R	PNLADQLIHL	YYFDCFSDSA	IRNATIGHRY	SPSCEYRAGH	MKAGSTÖTTY
CRF04_cpx_	PDLADQLIHM	HYFDCFSESA	IRKATLCHRV	SPRCEYQAGH	MENGSPOTT
CRF04 cpx	PDLADQLIHM	HYFDCFSESA	IROATLGYRY	SPRCEYQAGH	MENGSTÖTTY
CRF04 cpx	PDLADOLIHV	HYFDCFSESA	TRKATLCHDV	SPRCEYQAGH	MENGSPOTT
CRF05_DF_B	PSLADOLIHV	YYFDCFSESA	TRNATIGRTY	SPRCEFQAGH	MANGOT ONL &
CRF05_DF_B	PGLADQLIHM	YYFDCFSESA	IRKATIGYRV	SPRCEYQAGH	MENGELONIA
CRF06 cpx	PSMADOLIHI	HYFDCFSESA	TRKALLGHOV	SPRCDYQAGH	MANGSLOYLA
CRF06_cpx_	PGLADOLIHM	HYFDCFSESA	TRKATLGOTY	SPQCDYQAGH	MANGSLOYLA
CRF06_cpx_	PSLADOLIHM	HYFDCFSESA	TRKATLCUM	SPKCDYQAGH	MKVGSLQYLA
CRF06_cpx_	PSLADOLIHM	HYFDCFTESA	TPEATLGHTV	SPRCDIQAGH	MKVGSLQYLA
CRF11 cpx	PGLADOLIHI	HYFDCFSESA	TREATLCHOV	SPRCEYQAGH	NAVGSLQYLA
CRF11_cpx_	PELADOLIHM	HYFDCFAESA	TPKATT.GHDV	SPRCEYPAGR	NOVGSLQYLA
D CD 84ZRO	PGLADOLIHM	YYFDCFADSA	TDKATLGHKV	SPRCEYQAGH	NKVGSLQYLA
D CD ELI K	PGLADOLIHM	YYFDCFSESA	TDKATLCDTV	SPRCEYQAGH	NKVGSLQYLA
D_CD_NDK_M	PGLADOLIHM	YYFDCFAESA	TREATLCUTY	SPSCEYQAGH	NKVGSLQYLA
D UG 94UG1	PGLADOLIHI	YHFDCFARSA	TREATLONE	YPRCNYQAGH	NKVGSLQYLA
F1_BE_VI85	PGLADOLIHI	YYFDCFSESA	TDKVITTGÖ AA	SPRCNYQAGH	NKVGSLQYLA
F1 BR 93BR	PGLADOLIHI	YYFDCFSESA	TOWNTLOURT	SPRCNYQAGH SPRCNYQAGH	NKVGSLQYLA
F1 FI FIN9	PGLADOLIHI	VVFDCFSFSA	TOWATHGHAT	SPRCNYQAGH	NKVGSLQYLA
F1_FR_MP41	PDIADOLTHT	VVEDCESASA	TUNATIONAL	SPRCDYQAGH	NKVGSLQYLA
F2 CM MP25	PGLADOLTHI.	HALDCLOUDY	TREATIONS	SPRCNYQAGH	NKVGSLQYLA
F2KU_BE_VI	PGLADOLTHM	HAMDGEGDEW	TDENTITOTES	SPRCNYQAGH	NKVGSLQYLA
G BE DRCBL	DDI'YDA''IAL	TITEDOF IDSA	TUKATICOTT	SPRCEYQAGH	NKVGSLQYLA
G NG 92NG0	דעד דוות בדוו	VVEDCECECE	TURNITATIO	RPSCEYPAGH	NKVGSLQYLA
G_SE_SE616	ביידים מחדנות	TITUCESESA	TRKAILGEIV	SPRCEYPAGH	NKVGSLQYLA
H_BE_VI991	TOUCHUITUL	HIFDCFSDSA	TKKAILGQIV	SPRCEYQAGH	NQVGSLQYLA
H_BE_V1991	PCI'YDOI TITE	HIFDCESUSA	IKKALLGHRV	SPICDYQAGH	RKVGSLQYLA
H CF 90CF0	PGLYDOL TIME	TIPUCESESA	IRGAILGRVV	SPRCEYQAGH	NQVGSLQYLA
	DGI'YDOL TIM	INTERCESESA	IRKAILGRVV	RPRCNYPAGH	KQVGTLQYLA
J_SE_SE702	EGTWD THM	nirucrsDSA	IRKAILGQIV	SPRCDYQAGH	NKVGSLQYLA
J_SE_SE788	EGTWDÖT TAX	CIFDCFSDSA	IRKAILGQIV	SPRCDYQAGH	NKVGSLQYLA
K_CD_EQTB1	E-GIMINOTHI	ITPUCESESA	IRKALLGHRV	SPRCEYQAGH	TQVGSLQYLA

K_CM_MP535	PDLADQLIHI	YYFDCFSESA	VRKAILGHRV	SPRCECOAGH	NKVGSLQYLA
N_CM_YBF30	L DIVED TOTAL	DIFUCTIASA	LRUAVIGRDV	1.00000000001	TOTTOMY OUT 3
O_CM_ANT70	ERIMOMITATI	HIFTCFTASA	. VRKATTGORV	<b>「.小なっちゃっっっっっっっっっっっっっっっっっっっっっっっっっっっっっっっっっっっ</b>	COTTOMT OF T
O_CM_MVP51	EDIMMENTAL	HIFTCFTESA	LRKATTGORV	「J. T. なつでして カハロ	COTTOMT OFF &
O_SN_99SE_	PETADKMITHT	YYFACFTESA	LRKATLGODV	「1.小りへひひりかんだ	COTTOMT OF T
O_SN_99SE_	PRIMIMITAL	IIFACFTESA	LRKATTGORV	「いつつつりゅうへんしょ	COTTORT OF TH
U_CD83C	PDLADQLIHL	HYFDCFSDSA	IRKAILGHIV	SPRCEYOTGH	NKVGSLQYLA
					MILLODHOTHA
	151				194
00BW0762_1	LTALIKPKKR	KPPLPSVRKL	VEDRWNKPOK	TRGRRGNHTM	MOTT
00BW0768_2	PIAPIKEKKI	KPPLPSVRKL	VEDRWNKPOR	TKGDDGMUTM	MOTE
00BW0874_2	PIAPIKAHKK	KPPLPSVRKL	VEDRWNNPOK	ТКСРРСМИТИМ	MOU
00BW1471_2	PIMPIKEKKI	KPPLPSLOKL	VEDKWNNPOK	TRCHPCCUTM	MOTE
00BW1616_2	PIAPIKEKKI	KPPLPSVRKL	VEDRWNNPOK	TRGRRGMHTM	MCH
00BW1686_8	PLATIKEKKT	KPPLPSIRKL	VEDRWNKPOK	TRGPRCNIUM	MOL
00BW1759_3	PLATITEDERY	KPPLPSVRKL	VEDKWNKPOK	TRAPPONTURM	MOTI
00BW1773_2	PLAPTKEKKT	KPPLPSVRKL	VEDRWNNPOK	TRCPPCMETM	MOTI
00BW1783_5	PIATIKAKKK	KPPLPSVRKL	VEDRWNKPPK	TRUDDGMILITIM	NOTE
00BW1795_6	PLAPTKEKKK	KPPLPSVKKL	VEDRWNKPOK	TRGRRGGHTM	NEU
00BW1811_3	PIAPIKLOKK	KPPLPSVSKL	VEDRWNNPOK	ТРСРРССИТМ	NOTE
00BW1859_5	PIAPIKEKKI	KPPLPSVRKL	VEDRWNNPOK	ТРСРРСМИТИМ	NICIT
00BW1880_2	PIMPIKAKKI	KPPLPSVRKL	VEDRWNKPOK	TRGRRGMVTM	NCH
00BW1921_1	TIMPIKEKKT	KALPERAOKT	VEDRWNKPOK	TRGRRGMUTM	NCH
00BW2036_1	PLAPTKAKKK	KPPLPSVRKL	VEDRWNKPOK	TRCRKCNHTM	NOU
00BW2063_6	PIAPIKEKKK	KPPLPSVRKL	VEDRWNNPOK	ТРСИРСИПТИ	MOLI
00BW2087_2	LTALVKPKKI	KPPLPSVKKL	VEDRMNKDOK	TRGRRGNHTM	NGH.
00BW2127_2	LTALIKPKQI	KPPLPSVOKL	VEDRMNKBOK	TRGRRGDHTM	NGR.
00BW2128_3	LTALIKPKKI	KPPLPSVKKL	VEDRWNNPOK	TRGRRGNHTM	NGH.
00BW2276_7	LTALIKPKRR	KPPLPSVRKL	VEDRWNKPOK	TRGRRGNHTM	NOU
00BW3819_3	LTAIK.PKKR	KPPLPSVRKL	VEDRMNKDOK	TRGRRGNHTM	NGH.
00BW3842_8	LTALIKPKKR	KPPLPSVRKL	VEDRWNKSOK	TRDRRGNHTM	NGH.
00BW3871_3	LTALIKPKKI	KPPLPSIRKL	VEDRWNKSOK	TRGRRGNHTM	NGH.
00BW3876_9	LTALIKPKKI	KPPLPSVRKT	AEDRMMMDOK	TRGRRGNHTM	NGH.
00BW3886_8	LTALIKPKKR	KPPLPSVRKL	VEDRWNNSOK	TRDHRGNHTM	SGH.
00BW3891_6	LTALIKPKKR	KPPLPSVRKI	VEDEMNINDOK	TRGHRGNHTM	SGH.
00BW3970_2	LTTLIKPKRR	KPPLPSVRKL	AEDRMINIDOR AEDRMINIDOR	TRDRRGNHTM	NGH.
00BW5031_1	LTALIKPKRP	KPPLPSVRKL	AEDRWNKDDK	TRGRRGNHTM	NGH.
96BW01B21	LTALIKPKKR	KPPLPSVKKT	<b>VEDEMNIDBUK</b>	TRGRRGSHTM	NGH.
96BW0407	LTALIKPKKR	KPPLPSVRKT	VEDRWMEDOK	TRGRRGSHIM	NGH.
96BW0502	LTALIKPKOR	KPPLPSVRKL	VEDRWNKDOK	TRGRRGNHTM	NGH.
96BW06_J4	LTALIKPKKR	KPPLPSISKL	VEDRMMKDOD	TRGRRGNHTM	NGH.
96BW11 <u>0</u> 6	LTALVKPKKI	KPPLPSVRKL	VEDRWNKDOK	TRGRRGNHTM	NGH.
96BW1210	LTALIKPKKR	KPPLPSVRKT	VEDEMNKDOK VEDEMNKDOK	TRGRKGNHTM	NGH.
96BW15B03	LTALIKPKQI	KPPLPSVRKL	VEDEBNKDOK	TRGRRGNRTM	NGH.
96BW16_26	LTALIKPKKI	KPPLPSVNKL	VEDRWINDOK	TRGRRGNHTL	NGH.
96BW17A09	LTAVIKPKKI	KPPLPSVOKL	VEDRWNKPOK	TRGHRGSHTM	NGH.
96BWM01_5	LTALIKPKKR	KPPLPSVRKT	AEDEMNIKDOK AEDEMNIKDOK	TRGRRESHIM	NGH.
96BWM03_2	LTALIKPKRI	KPPLPSVRKL	TEDRWNKDOK	TKGRRESHIM	NGH.
98BWMC12_2	LTALIKPOKR	KPPLPSVRKL	AEDEMMINIDOR.	TIGERGINETIM	NGH.
98BWMC13 4	LTALIKPKKR	KPPLPSVKKT.	AEDEMMKDOK AEDEMMKDOK	TRGRRGSHIM	NGH.
98BWMC14_a	LTALIKTKKR	KPPI PSVSKI	VEDEWMKEOK	TRGRRESHIM	NGH.
98BWM014 1		KPPLPSVRKT.	VEDDIMINEDOR	TRGHRGNHTM	NGH.
98BWM018_d	LTALIKPKKI	KPPI PSVKKI.	VEDEWIKEOK	TRDRRGNHTM	NGH.
98BWM036 a	LTALIKPKRR	KPPLPSVRKT.	ABDEMMEDOR	TRURRGNHTM	NGH.
98BWM037 d	LTALIKPKRR	KPPI PSVPKT	TEDEMMIKEOK	TRGRRGNHTM	NGH.
99BW3932 1		KPPLPSVOKT	AEDDMANDON	TKUHKGNHTM	NGH.
99BW4642 4		KDDI DGIDKI	A TOTA WINTE OF A	TRGRRGNHTM	NGH.
99BW4745_8		KDDI'DGIWAL	A TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED TO THE WANTED	TRGREGNHTM	NGH.
99BW4754_7	LTALLKTKRR LTALIKPKRI	KDDI'DGIDEL	A BOKMINDOK	TRUTTE	NGH.
99BWMC16_8	LTALTKPKVT	KDDI'DGIWAL	A POKMNKLÖK	TRGHRGNHTM	NGH.
A2 CD 97CD	LRALVASTOT	KDDI.Detmv	AEDBERTES OF	TRGRRGNHTM	NGH.
A2_CD_97CD		WELDERAKKT	<b>VEDKMNKPQK</b>	TRGHRGSHTM	NGC.

A2_CY_94CY	T WATER CODE				
A2_C1_94C1 A2D97KR	LKAVVASTRI	KPPLPSVRKI	<ul> <li>VEDRWNKPQF</li> </ul>	TKGHRGSHT	NGC.
	DVWTAGEIKI	KPPLPSVRKI	TEDRWNKPOK	TKCHPCCHTA	אורינו
A2G_CD_97C	TYMUNTATION	. KEPLPESAKKI	TEDRWNKPOK	TRCHPENTOTA	r cov
A_BY_97BL0	TWATALLALKE	RPPLPSVRXL	TEDRXNKPOK	TRGPPYNTHTN	NTYC
A_KE_Q23_A	TWT-A.L. B.K.K.I	. KPPLPSVRIL	TEDRWNKPOK	TRGI.PRCUTN	NCC
A_SE_SE659	TRALVAPRET	. KPPLPSVRIL	AEDRWNKPOK	עהטססבפתעאריי	MOO
A_SE_SE725	TVATAILLIKI	KPPLPSVRKT	AEDRWSKPOK	ТРСИРССИТ	NO.
A_SE_SE753	TVATATAKKI	KPPLPSVRIL	AEDRWNKSRK	. ТРСОРССЫТЫ	NOO
A_SE_SE853	PVVTATATAKKI	KPPLPSVKKT.	TEDEWIKEOR	TO CITE CISTREES.	* ***
A_SE_SE889	LKALVTPKKI	RPPLPSVRKL	AEDRWNKDOK	TROTHGINET	I AGI.
A_SE_UGSE8	LKALVTPKRT	KPPLPSVRKL	TEDEMMKBOK	TROHROSHIN	NGH.
A_UG_92UG0	LKALVTPSRM	KPPLPSVKKL	TEDIMMICE OF	INGREGIE	NGC.
A UG U455	LKALVTPTRA	KPPLPSVKKL	TEDEMINES	TRGRRESHIM	NGC.
AC_IN_2130	LTALTKPKKR	KDDI.DCIDUI	MODERNINGE	TRGHRGSRTI	NRH.
AC_RW 92RW	I.TAI.TKDKKT	KPPLPSIRKL	VEDKWMNPQK	TRGRRGNHTM	NGH.
AC SE SE94	I.TAI.TKDKKT	KPPLPSVSKL	VEDKWNKPQK	TRGRRGNHTM	NGH.
ACD_SE_SE8	T.KVT.Mububi	KPPLPSVRKL	ARDKMNKĐČK	TRGRRGNHTM	NGH.
ACG_BE_VI1	TVALVEDOA	KPPLPSVRKL	AEDRWSKSQK	TRGLRGSLTM	NGC.
AD SE SE69	TUMTATATAT	KPPLPSVRKT	TEDEMNIKDOR	TOCITOCATION	1700-
	DIALITICKE	KEPLPSAKKT	TEDRWNKDOD	TRAUDCCUM	ATOTT
AD_SE_SE71	TIVATIATELIA	KERPERSAKIL	TEDRWNKPOK	TPGI.DECUTION	MOO
ADHK_NO_97	DIMINABLY	Y55P5STKKP	AEDRWNKPOK	TPCUDCCUM	MOO
ADK_CD_MAL	DIADIARKKI	RPPLPSVRKL	TEDEMMKEOO	TROUDOCTION	37077
AG_BE_VI11	DIVVIATATATET	KEPLPSVKKL	TEDRWNKPOK	ТРСИРССИТМ	MODE
AG_NG_92NG	TICATIVITY	VERPERAKE	TEDRWNEPOK	TRCHPCCHCT	ATCUTT
AGHU_GA_VI	TVATALLIKE	RPPLPSVOKL	TEDRWNKDOK	TENTEDOCTION	3700
AGU_CD_Z32	DIADLIAKKI	KPPLPSVKKT	VEDEMMEDOR	TRCUDENCOM	377777
AJ_BW_BW21	TIVELTUCEUK	VESTINGK!	VEDEMNIKDOD		37077
B_AU_VH_AF	LAALITPROT	KPPLPSVTKL	TEDEMMIKEER	TYCHROATING	NGH.
B CN RL42	LTALTTPKNR	KPPLPSVTKL	TEDEWINDAR	TRUTTERSHIM	SGH.
B DE D31 U	LAALITPKKT	KPPLPSVAKL	TEDRAMACEOR	TRGHRGSHTM	SGH.
B DE HAN U	LAALTTPKKT	KPPLPIVTKL	TEDRMMVEKK	TRGHRGSHTM	NGH.
B_FR_HXB2	LAALTTPKKT	KDDI.Devimer	TEDRWINKPOK	TKGHRGSHTM	HGH.
B_GA_OYI_	I.AAT.TKDKKT	KPPLPSVTKL	TEDRWNKPQK	TKGHRGSHTM	NGH.
B_GB_CAM1_	T.TAT.TADKKT	KPPLPSVTKL	TEDRWNKPQK	TKGHRGSHTM	NGH.
B GB GB8 A	T.TATIAPKKI	KPPLPSVRKL	TEDRWNKPQK	TKGHRGSHTM	NGH.
B GB MANC	DIMUTIPALI	KPPLPSVTKL	TEDRWNKPQK	TKGHRGSHTM	NGH.
B KR WK AF	THATTTPKKT	KPPLPSVTKL	TEDRWNKPQK	TKGHRESHTM	NGH.
	DIALITPEKET	KPPLPSVRKL	TEDRWNKPQK	TKGHRGSHTM	NGH.
B_NL_3202A	THATTYPKKT	KPPLPSVTKL	TEDRWNKPOK	TRAUDACTION	MOTE
B_TW_TWCYS	DIWTA O D KKT	KPPLPSVVKT.	TEDDWIKDOR	TRAIDAGITANA	*****
B_US_BC_L0	DWWDIIDKKI	KPPLPSVTKL	TEDRWNKPOK	TRCUDGCUMM	ATCHTY
B_US_DH123	THATIVITY	KEELLESVAKT	TEDRWNKSHK	TKCHDCCHTM	MOTE
B_US_JRCSF	TIATIKEKKI	KPPLPSVKKT	TEDRWNKPOK	ТКСИРССИТМ	MOTO
B_US_MNCG_	DIMPLIAKKI	KPPLPSVKKT	TEDRWNKPOK	TKCHDCCUTT	MOTT
B_US_P896_	THAMETIFIELD	KPPFPSVTKL	TEDRWNKPOK	TKCHDCCHTM	COTT
B_US_RF_M1	THATTITEKKI	KLLTLSAKKT	TEDRWNKPOK	TRCUDGCUTM	ATOTT
B_US_SF2_K	LAALITPKKT	KPPLPSVKKL	TEDRWIKPOK	TROUNGSHIM	NGH.
B_US_WEAU1	LTALITPKKI	KPPLPSVKKL	TEDEMMKBOK	TRUTTE	NGH.
B_US_WR27	LTALIKPXKI	KPPLPSVKKL	TEDEWINDON	TKGHRGSHTM	NGH.
B_US_YU2_M	LTALITPKKT	KPPI PSVKKI.	TEDRWINKPOK	TKGHRGSHTM	NGH.
BF1 BR 93B	LTALIKPKKR	KDDI DGAKKI	TEDKMNKPOK	TKGHRGSRTM	NGH.
C BR 92BR0	LTALTKPKKT	KPPLPSVKKL	TEDRWINKPOK	TKDHRGSHTM	NGH.
C_BW_96BW0	T.TAT.TKDKKD	KPPLPSVKKL	A PDKMNKPOK	TRDRRGNHTM	NGH.
C BW 96BW1	I.TAI.TKDVV-	KPPLPSVRKL	VEDRWNEPQK	TRGRRGNHTM	NGH.
C BW 96BW1	TANTARAM	KPPLPSVRKL	VEDRWNKPQK	TRGRRGNHTM	NGH.
C_BW_96BW1	TIMUTKEKKK	KPPLPSVRKL	VEDRWNKPOK	TRCPKCNTUTM	MOTE
	DIMPLYANCI	KPPLPSVRKL	VEDRRNKPOK	TRGRRGMDTM	MOU
C_ET_ETH22	DIADIKAKK	KPPLPSVSKL	VEDKWNKPOK	TRGPPCNETM	MOU
C_IN_93IN1	TIMPIKEKKI	KPPLPSIKKL	VEDRWNNPOK	IRGREGNETM	MCU
C_IN_93IN9	PIATIKEKKI	KPPLPSIKKL	VEDRWNNPOK	TRGRRGNHTM	MCH
C_IN_93IN9	TIMTIKAKKI	KPPLPSVRKL	VEDRWNNPLK	TRGRRGNHTM	NCU
C_IN_94IN1	DIWPIKLKK	KPPLPSIKKL	VEDRWNNPOK	TRCRRCMUTM	MOTE
C_IN_95IN2	LTALIKPKKI	KPPLPSIKKL	VEDRWNNPOK	IRGREGNUTM	HGU.
		_			ngn.

CD 201 NE C	T 157 T 7 mm-rerem				
CRF01_AE_C	PKAPATAKKT	RPPLPSVRKL	TEDRWNKPQK	TRGHRENPTM	NGH.
CRF01_AE_C CRF01 AE C	TWITTELL	RPPLPSVRKL	TEDRWNKPQK	TKGHRESPTM	NGH.
	TRALAMENT	RPPLPSVRKL	TEDRWNKPQK	TRGHRENPTM	SGH.
CRF01_AE_T	DVATILLEVET	RPPLPSVKKL	TEDRWNKPQK	IWGHRENPTM	NGH.
CRF01_AE_T	TKALITIPKKI	KPPLPSVKKL	TEDRWNKPQK	IRDHREYRTM	NGH.
CRF01_AE_T	PVATITIAKKI	RPPLPSVKKL	TEDRWNKPQK		
CRF01_AE_T	TKALTTPKRI	RPPLPSVKKL	TEDRWNKHQ.	KGDHRENPTM	NGH.
CRF01_AE_T	PKAPLLAKKI	RPPLPSV.EI	TEDRWNKPQ.	KRGHRENPTM	NGH.
CRF01_AE_T	TKALLIPKKI	KPPLPSVRKL	TEDRWNEPQK	IRGHREYPTM	NGH.
CRF02_AG_F	LKALVTPAKT	KPPLPSVKKL	AEDRWNKPQK	TRGHRGNRSM	NGH.
CRF02_AG_F	LKALVTPVKT	KPPLPSVKKL	AEDRWNKPQK	TRGHRGNRSM	NGQ.
CRF02_AG_G	LKALVTPTRK	KPPLPSVRKL	AEDRWNEPQK	TRGHRGSRPM	NGR.
CRF02_AG_N	LNALVAPTKT	KPPLPSVRKL	AEDRWKEPQK	TRGHRGSRPM	NGH.
CRF02_AG_S	LKALVTPTRT	KPPLPSVKKL	AEDRWNEPQK	TRGHRGSRSM	NGH.
CRF02_AG_S	LKALVTPTRR	KPPLPSVKKL	AEDRWNEPQK	TRGHRGNRSM	NGH.
CRF03_AB_R	LAALRTPKKI	KPPLPSVTKL	TEDRWNKPQR	TKDHRGSHTM	SGH.
CRF03_AB_R	LAALRTPKKI	KPPLPSVTKL	TEDRWNKPQR	TKDHRGSHTM	SGH.
CRF04_cpx_	LAALISPKKT	KPPLPSVKKL	VEDRWNKPQK	TRGRRENQIM	NGH.
CRF04_cpx_	LAALISPKKT	KPPLPSVKKL	VEDRWNKPQK	TRGRRENQIM	NGH.
CRF04_cpx_	LAALISPKKT	KPPLPSVKKL	VEDRWNKSQK	TKGRRESHIM	NGH.
CRF05_DF_B	LTALITPKKT	KPPLPSVRKL	TEDRWNKPQK	TKGRRGNHTM	NGY.
CRF05_DF_B	LTALITPQKI	KPPLPSVRKL	TEDRWNKPQR	TKGHRGCHTM	NGY.
CRF06_cpx_	LTALIKPEKR	KPPLPSVQKL	VEDRWNKPQK	TRGHRESHTM	NGH.
CRF06_cpx_	LTALIKPKKR	KPPLPSVQKL	VEDRWNKPQK	TRDHRESHTM	NGH.
CRF06_cpx_	LTALIKPRKR	KPPLPSVQKL	VEDRWNKPQK	TRDHRECHTM	NGH.
CRF06_cpx_	LKALVKTKRR	KPPLPSVQKL	VEDRWNKPQK	TKDHRESHIM	DGH.
CRF11_cpx_	LKALVTPTRA	KPPLPSVRKL	AEDRWNKPOK	TRGHRGNHTA	NGC.
CRF11_cpx_	LKALVTPKRT	KPPLPSVRKL	TEDRWNKPQK	TRGRRGNHTV	NGC.
D_CD_84ZR0	LTALIAPKKR	KPPLPSVKKL	TEDRWNKPRQ	TKGRRGSHTM	NGH.
D_CD_ETI_K	LTALIAPKQI	KPPLPSVRKL	TEDRWNKPQQ	TRGHRGSHTM	NGH.
D_CD_NDK_M	LAALIAPKKI	KPPLPSVRKL	TEDRWNKPQK	TKGRRGSHTM	NGH.
D_UG_94UG1	LTALVTPRKI	KPPLPSVGKL	TEDRWNKPQR	TKGHRGSHTM	NGH.
F1_BE_VI85	LTALIAPEKT	KPPLPSVQKL	VEDRWNKPQE	TRGHRGSHTM	NGH.
F1_BR_93BR	LTALIAPKKT	KPPLPSVQKL	VEDRWNKPQK	TRGHRESHTM	NGH.
F1_FI_FIN9	LTALVSPKKA	KPPLPSVKKL	VEDRWNKPQE	IRGHRGSHTM	NGH.
F1_FR_MP41	LTALIAPKKT	KPPLPSVKKL	VEDRWNKPQE	TRGHRGSHTM	NGH.
F2_CM_MP25	LTALITPKKI	KPPLPSVRKL	VEDRWNNPQK	TRGHRGSHTM	NGH.
F2KU_BE_VI	LTALVAPKKT	KPPLLSVRKL	VEDRWNKPQK	TRDHRGSHTM	NGH.
G_BE_DRCBL	LKVLVAPTRR	RPPLPSVRKL	TEDRWNEPQK	TRGHRENPTM	NGH.
G_NG_92NG0	SKALVTPTRK	RPPLPSVGKL	AEDRWNKPOK	TRDHRENPTM	NGH.
G_SE_SE616	LKVLVTSKRS	RPPLPSVTEL	AEDRWNKPOK	TRGHRENPTM	NGH.
H_BE_VI991	LTALISPKRT	KPPLPSVRKL	VEDRWNKPQK	TRGHRGSHTM	NGH.
<b>H_BE_VI997</b>	LTALVAPKKT	KPPLPSVKKL	VEDGWNKPOK	TRGHRGSHTM	MRH.
H_CF_90CF0	LTALVAPKKI	KPPLPSVRKL	VEDRWNKPQK	TRGHRGSHTM	NGH.
J_SE_SE702	LTALIKPKRR	KPPLPSVQKL	VEDRWNKPQK	TRDHRESHTM	NGH.
J_SE_SE788	LTALIRPKRR	KPPLPSVQKL	VEDRWNKPQK	TTGHRESHTM	NGH
K_CD_EQTB1	LTALIAPKKT	KPPVPSVQKL	VEDRWNKPQK	TRGHRGSHTM	SGO.
K_CM_MP535	LTALVAPRRP	KPPVPSVKKL	VEDRWNKPQK	TRGHRGSOTM	NGH.
N_CM_YBF30	LTAWVGAKKR	KPPLPSVTKL	TEDRWNEHQK	MOGHRGNPTM	NGH.
O_CM_ANT70	LRAVVKARSR	KPPLPSVOKL	TEDRWNKHLR	IRDOLKSDSM	NGH.
O_CM_MVP51	LKAVVKVKRN	KPPLPSVORL	TEDRWNKPWK	IRDOLGSHSM	NGH.
O_SN_99SE_	LRVVVKEKRN	KPPLPSVOKL	TEDRWSRHLR	IRDOLESHSM	NGH
O_SN_99SE_	LRVVVKEKRH	KPPLPSVOKL	TEDRWSRHLR	IRDOLGSHSM	NGH.
U_CD83C	LTTLVAPTKR	KPPLPSVRKL	VEDRWNKPQK	TKGHKGGHTM	HGH.
<del></del>					

Table 18. HIV Vpr Sequence Alignment GCG Multiple Sequence File. Written by Omiga 1.1

Name: 00BW0762_1	Len:	100	Check: 8179	Weight:	1.00
Name: 00BW0768_2	Len:	100	Check: 8119	<b>3</b>	1.00
Name: 00BW0874_2	Len:	100	Check: 7661		1.00
Name: 00BW1471_2	Len:	100	Check: 6614	Weight:	1.00
Name: 00BW1616_2	Len:	100	Check: 6361		1.00
Name: 00BW1686_8	Len:	100	Check: 6014	Weight:	1.00
Name: 00BW1759_3	Len:	100	Check: 6894	Weight:	1.00
Name: 00BW1773_2	Len:	100	Check: 7772	Weight:	1.00
Name: 00BW1783_5	Len:	100	Check: 7149	Weight:	1.00
Name: 00BW1795_6	Len:	100	Check: 7614	Weight:	1.00
Name: 00BW1811_3	Len:	100	Check: 7968	Weight:	1.00
Name: 00BW1859_5	Len:	100	Check: 6222	Weight:	
Name: 00BW1880_2	Len:	100	Check: 6941	Weight:	1.00
Name: 00BW1921 1	Len:	100	Check: 8183	Weight:	
Name: 00BW2036 1	Len:	100	Check: 8175	Weight:	1.00
Name: 00BW2063 6	Len:	100	Check: 8705	Weight:	1.00
Name: 00BW2087 2	Len:	100	Check: 7388	Weight:	1.00
Name: 00BW2127 2	Len:	100	Check: 8282	Weight:	1.00
Name: 00BW2128_3	Len:	100	Check: 1723	Weight:	1.00
Name: 00BW2276_7	Len:	100	Check: 6468	Weight:	1.00
Name: 00BW3819_3	Len:	100	Check: 5670		1.00
Name: 00BW3842 8	Len:	100	Check: 7788	Weight:	1.00
Name: 00BW3871 3	Len:	100	Check: 7788	Weight:	1.00
Name: 00BW3876 9	Len:	100	Check: 7285	Weight:	1.00
Name: 00BW3886 8	Len:	100	Check: 7285	Weight:	1.00
Name: 00BW3891_6	Len:	100	Check: 8446	Weight:	1.00
Name: 00BW3970 2	Len:	100	Check: 7113	Weight:	1.00
Name: 00BW5031 1	Len:	100	Check: 7113	Weight:	1.00
Name: 96BW01B21	Len:	100		Weight:	1.00
Name: 96BW0407	Len:	100	Check: 7551 Check: 8226	Weight:	1.00
Name: 96BW0502	Len:	100		Weight:	1.00
Name: 96BW06_J4	Len:	100		Weight:	1.00
Name: 96BW11 06	Len:	100		Weight:	1.00
Name: 96BW1210	Len:	100	<del>-</del>	Weight:	1.00
Name: 96BW15B03	Len:	100		Weight:	1.00
Name: 96BW16 26	Len:	100		Weight:	1.00
Name: 96BW17A09	Len:	100	Check: 7009 Check: 6492	Weight:	1.00
Name: 96BWMO1 5	Len:	100	Check: 5492	Weight:	1.00
Name: 96BWMO3 2	Len:	100		Weight:	1.00
Name: 98BWMC12 2	Len:	100	· ·	Weight:	1.00
Name: 98BWMC13 4	Len:	100		Weight:	1.00
Name: 98BWMC14 a	Len:	100	Check: 9051	Weight:	1.00
Name: 98BWM014 1	Len:		Check: 7867	Weight:	1.00
Name: 98BWM018 d		100	Check: 7266		1.00
Name: 98BWM036 a	Len:	100	Check: 7638	Weight:	1.00
Name: 98BWM037 d	Len: Len:	100	Check: 7495	Weight:	1.00
Name: 99BW3932_1		100	Check: 6640	Weight:	1.00
Name: 99BW4642 4	Len:	100	Check: 6974	Weight:	1.00
Name: 99BW4745 8	Len:	100	Check: 6081	Weight:	1.00
Name: 99BW4754_7	Len:	100	Check: 8860	Weight:	1.00
Name: 99BWMC16_8	Len:	100	Check: 6856	Weight:	1.00
TOTALICIO 8	Len:	100	Check: 8223	Weight:	1.00

	1				
00BW0762_1	MEQAPEDQGI	OREPYNEWTT	. ELLERLKORA	. VDUEDDDDU **	50 SLGQHIYNTY
00BW0768_2	MEQAPEDQGE		ELLERIKOEN	AKHLAKAMPH	I NLGEYIYETY
00BW0874 2	MEQPPEDQGF		FILEELKOEN	VEHILDED STATES	NLGEYIYETY
00BW1471 2	MEQPPEDQGI			VKHEPRPWLH	SLGQYIYETY
00BW1616_2	MEQPPEDQGE			VRHFPRPWLH	SLGQHIYETY
00BW1686 8	MEQAPEDQGF		. FILPELKOEA	VKHE-PK-PWLH	SLGQYIYENY
00BW1759 3	MEQAPEDQGF			VKHE-PKFMPH	SIGQYIYETY
00BW1773 2	MEQPPEDQGP		· · · · · · · · · · · · · · · · · · ·	VRHFPRPWLH	GLGQHIYETY
00BW1783 5	MEQAPEDQGP		. BITEBUTÕEV	VKHEPRPWLH	SLGQYIYETY
00BW1795 6	MEQAPEDQGP		. FLIGELKOEA	VKHFPRPWLH	SMGQHIYNTY
00BW1811 3	MEQPPEDQGP		. Ellesikosa	VKHEPRIWLH	NLGQYIYNTY
00BW1859 5	MEQPPEDQGP		. ETT.EELKQEA	VKHEPRPWLH	GLGQYVYETY
00BW1880_2	MEQAPEDQGP		ATTRETIVE A	VKHE-BETMPH	SLGQYIYETY
00BW1921 1	MEQAPEDQGP		. BITERIKOEV	ARHFPSSWLH	GLGQHIYNTY
00BW2036 1	MEQAPEDQGP		. BILDELVOEA	VRHFPRTWLH	NLGQYIYQTY
00BW2063 6	MEQPPEDQGP		ATOMINATION I	VRHFPRPWLQ	SLGQYIYETY
00BW2087 2	MEQAPEDQGP		. СППББПКОБА	VRHFPRLWLH	NLGQYIYNTY
00BW2127_2	MEQAPEDQGP		ETTEETKOEV	VKHE-PRPWLH	NLGQYIYETY
00BW2128 3	MEQPPEDQGP		FITEERVOEW	VRHEPREWLH	NLGQYIYETY
00BW2276 7	MEQTPEDQGP		ETTEET KOEV	VRHFPRPWLH	GLGQYIYETY
00BW3819 3	MEQAPEDQGP		EILEELKOEA	VRHFPRTWLH	SLGQYIYDTY
00BW3842 8	MEQVPEDQGP		EILEELKOGA	VRHFPRPWLH	NLGQHIYETY
00BW3871 3	MEQVPEDQGP		EILEELKQEA	AKHEAKAMPÕ	GLGHYIYETY
00BW3876 9	MEQSPEDQGP		EILEELKQEA	VKHF. PKPMPH	NLGQYIYETY
00BW3886 8	MEQFPEDQGP		ELLEELKQEA	VKHF.PRPWLH	GIGQYIYETY
00BW3891 6	MEQPPEDQGP		ELLEELKQEA	VKHFPRPWLH	NLGQHIYETY
00BW3970 2	MEQPPEDQGP		EVLEELKOEA	VRHFPRPWLH	SLGQYVYETY
00BW5031 1	MEQAPEDQGP		EILEELKQEA	VRHFPRPWLH	SLGQHIYETY
96BW01B21	MERPPEDQGP		ELLEELKOEA	VRHFPRPWLH	SLGQHIYETY
96BW0407	MERAPEDQGP		ELLEELKQEA	VRHFPRPWLH	GLGQYIYETY
96BW0502	MEQAPEDQGP	OREPVNEWTI.	ELLEELKQEA	VRHEPRMWLH	GLGQYIYETY
96BW06 J4	MEQAPEDQGP	OREPYNEWTT.	ELLEELKQEA	VRHFPGPWLH	GLGQYVYETY
96BW11 <u>0</u> 6	MEQAPEDQGP	OREPVNEWTI.	EILEELKQEA	VKHE-PPPWLH	SLGQYIYETY
96BW1210	MEQAPEDOGP	OREDVNEWTT.	ELLEELKQEA	VRHFPRPWLH	SLGQHIYNTY
96BW15B03	TEQAPEDQGP	OREPYNEWAT.	ELLEELKQEA	VKHF. PRPWLH	SLGQYIYETY
96BW16_26	MEQPPEDQGP	OREPYTEWAL.	ELLEELKQEA	VRHFPRPWLH	SLGQYIYETY
96BW17A09	MEQTPEDQGP	OREPHNEWTT.	ELLEELKQEA	VRHFPRPWLH	GLGQYIYDTY
96BWMO1_5	MEQAPEDQGP	OREPYNEWTT.	ELLEELKQEA	AKHE-PKFMTH	SLGQHIYETY
96BWM03 ²	MEQAPEDQGP	OREPYNEWTI.	ELLEELKQEA	VRHFPR.TLH	DLGQHIYNTY
98BWMC12_2	MEQPPEDQGP	OREPYNEWTT.	EILEELKQEA	TKHLDIDDD	HLGQYIYETY
98BWMC13 4	MEQAPEDQGP	OREPYNEWTI.	ELLEELKQEA	VRHFPRPWLH	SLGQYIYETY
98BWMC14_a		OREPYNEWTT.	ELLEELKQEA EILEELKQEA	AKUL BEBRIA	NLGQYVYNTY
98BWM014_1	MEQAPEDOGP	OREPYNEWTT.	ALLEDLKQEA	AKHTEKEMTH	SLGQHIYETY
98BWM018 d	MEQAPEDOGP	OREPYNEWTT	ELLEELKQEA	VKHVPKPWLH	SLGQHIYETY
98BWMO36_a	MEQAPEDQGP	OREPYNEWTI	ELLEELKQEA	VRHEPREWLI	SLGQYIYETY
98BWM037_d	MEQAPEDOGP	OREPYNEWTI	EILEELKQEA	AKHLATIMPH	NLGQYIYETY
99BW3932_1	MEQAPEDOGP	OREPYNEWTT	EILEELKQEA	AKULTKEMTH	DEGOXIAELA
99BW4642_4	MEQPPEDOGP	OREPYNEWAL	EILEELKQEA	VRHEPRODUIT	NLGQYIYATY
99BW4745_8		OKEPYNEWILL	R. V. I. R. I. I. T. COTA	TITO TITO TO TO THE TOTAL	
99BW4754_7	MEQAPENOGP	OREPYNEWAT.	ELTEET KOEV	VEHEDDDMI	SIGQYVYSTY
99BWMC16_8	MEQAPEDQGP	OREPYNEWTI.	ELT-EELKOEV	ANDLEDDDDAY	DLGQHIYNTY
_			пппериобен	VKHFPRPWLH	SLGLYIYETY
	51			-	•
00BW0762_1	GDTWTGVEAT	IRILOOUTE	HFRIGCQHSR	TOTMO	100
00BW0768_2	GDTWTGVEAL	IRVLOOTIET	HEBIGCORDK	TGTMC	KRTRNGASRS
00BW0874 2					
00BW1471_2	GDTWAGVEAT.	LRILOOLLET	HEBIGCORDE	TOTTES	KRARNGASRS
	CDINGAGA	TR ( 14 X 11 4 4 4 4	UPDTCCAttch	TATEMA	
00BW1686 8					
00BW1759_3	GDTWTGVEAT	IRILOOTTRI	HADIGCORDK	TGTTÖK	K.ARNGASRS
		TANTIT	*** WIGC OUSK	TGT AKÖ	RRARNGANRS

00BW1773 2	GDTWTGVEAI	IKILQQLLFI	HFRIGCOHSR	IGILRQ	RRARNGASRS
00BW1783_5	GDTWAGVEAI	IRILQQLLFI	HFRIGCQHSR	IGILRQ	RRTRNGASRS
00BW1795_6	GDTWTGVEAI	IRTLQQLLFV	HFRIGCQHSR	IGIMRQ	RRARNGTSGS
00BW1811_3	GDTWTGVEAI	IRILQQLLFV	HFRIGCQHSR	IGILQQ	RRARNGASRS
00BW1859_5	GDTWAGVEAL	IRILQQLLFI	HFRIGCQHSR	IGILQQ	RRARNGASRS
00BW1880_2	GDTWTGVEVL	IRILQQLLFI	HFRIGCQHSR	IGIIRQ	RRTRNGASRP
.00BW1921_1	GDTWTGVEAL	IRILQQPLFI	HFRIGCQHSR	IGITLP	RRARNGANRS
00BW2036_1	GDTWTGVEAI	IRILQQLLFI	HFRSGCAHSR	IGTLPQ	RRARNGASRS
00BW2063_6	GDTWTGVEAI	IRILQQLLFI	HFRIGCQHSR	IGIIRQ	RRTRNGDSRS
00BW2087_2	GDTWTGVEAL	IRILQQLLFT	HYRFGCQHSR	IGILQQ	RRARNGANRS
00BW2127_2	GDTWTGVEVI	IRILQQLLFI	HFRIGCQHSR	IGILRQ	RRTRNGASRS
00BW2128_3	GDTWAGVESL	IRMLQHLLFI	HFRIGCQHSR	IDX	
00BW2276_7	GDTWAGVEAI	IRILQQLLFT	HFRIGCHHSR	IGILRQ	RRARNGASRS
00BW3819_3	GDTWAGVEAL	LRILQQLLFI	HFRIGCQHSR	IGILRQ	RRARNGASRP
00BW3842_8	GDTWTGVETI	IRILQQLLFI	HFRIGCSRSR	IGPMRQ	RRARNGASRS
00BW3871_3	GDTWTGVEAL	LRVLQQLLFV	HFRIGCQHSR	IGILQQ	RRARNGSSRS
00BW3876_9	GDTWTGVEAI	IRILQQLLFI	HYRIGCAHSR	IGIVRQ	RRARNGANRS
00BW3886_8 '	GDTWTGVEAI	IRMLQQLLFI	HFRIGCQHSR	IGILRQ	RRARNGANRS
00BW3891 <u></u> 6	GDTWTGVEAL	IRMLQQLLFI	HFKIGCQHSR	IGILRR	RRARNGASRS
00BW3970_2	GDTWTGVEAL	IRILQQLLFI	HFRIGCQHSR	IGIILQ	RRTRNGASRS
00BW5031_1	GDTWMGVEAL	IRILQ	HFRIGCQHSR	IGIILQ	RRTRNGASRS
96BW01B21	GDTWTGVENM	IRILQQLLFV	HFRIGCQHSR	IGILQQ	RRARNGASRS
96BW0407	GDTWTGVEAL	IRTLQQLLFI	HFRIGCQHSR	IGILRQ	RRVRNGTNRS
96BW0502	GDTWTGVETL		HFRIGCQHSR	IGILRQ	RRTRNGASRS
96BW06_J4	GDTWTGVETI	IRILQQLLFI	HFRIGCQHSR	IGILQQ	RRARNGASRP
96BW11_06	GDTWTGVEAI		HFRIGCQHSR	IGIIRQ	RRTRNGASRP
96BW1210	GDTWTGVEVL	TRILQQLLFI	HFRIGCQHSR	IGILRQ	RRTRNGASRS
96BW15B03	GDTWTGVEAI		HFRIGCLHSR	IGIMRQ	RRARNGASRS
96BW16_26	GDTWTGVEIK		HFRIGCQHSR	IGILQQ	RRARNGARRS
96BW17A09	GDTWAGVEAL		HFRIGCHHSR	IGITPQ	RRARNGSRRS
96BWMO1_5	GDTWTGVEAI	TRILQQLLFI	HYRIGCQHSR	IGIMRQ	RRARNGASRS
96BWMO3_2	GDTWAGVLAI		HFRIGCSHSR	IGIWR	RRARNGASRS
98BWMC12_2	GDTWTGVEAI	LRILQQLLFI	HFRIGCQHSR	IGILRQ	RRARNGASRS
98BWMC13_4	GDTWTGVEAI		HFRIGCQHSR	IGILRQ	RRTRNGASRS
98BWMC14_a	GDTWTGVEAI	IRILQQLLFI	HFRIGCQHSR	IGILPR	RRARNGSSRS
98BWM014_1	GDTWTGVEAI	IRILQQLLFI	HFRIGCQHSR	IGILRQ	RRARNGANRS
98BWM018_d	GDTWTGVEVI	IRILQQLLFI	HFRIGCQHSR	IGILRQ	RRARNGANRS
98BWMO36_a	GDTWTGVEAL	IRTLQQLLFI	HFRIGCQHSR	IGILRQ	RRARNGASRS
98BWM037_d	GDTWTGVETI	IRVLQQLLFI	HFRIGCH.SR	IGIVRQ	RRARNGASRS
99BW3932 <u>1</u>	GDTWMGVEAL	LRILQQLLFI	HFRIGCQHSR	IGILRQ	RRARNGASRS
99BW4642_4	GDTWAGVEAI		HFRIGCHHSR	IGIMQQ	RRARNGASRS
99BW4745_8	GDTWTGVEAL	MRILQQLLFI	HFRIGCRHSR	IGILRQ	RGARNGASRS
99BW4754_7	GDTWTGVEAI		HFRIGCHHSR	IGIIRQ	RRTRNGASRP
99BWMC16_8	GDTWTGVEVI	IRILQQLLFI	HFRIGCQHSR	IGILRQ	RRARNGPSRS

Table 19. HIV Vpu Sequence Alignment GCG Multiple Sequence File. Written by Omiga 1.1

Name: 00BW0762 1	T on .	105	<b>~</b> "		
Name: 00BW0768 2	Len:	106		_	
Name: 00BW0874_2	Len:	106			
Name: 00BW1471 2	Len:	106		J	
	Len:	106	Check: 734		1.00
	Len:	106			1.00
Name: 00BW1686_8	Len:	106	Check: 878		1.00
Name: 00BW1759_3	Len:	106	Check: 758	34 Weight:	1.00
Name: 00BW1773_2	Len:	106	Check: 750	7 Weight:	1.00
Name: 00BW1783_5	Len:	106	Check: 787	4 Weight:	1.00
Name: 00BW1795_6	Len:	106	Check: 872	21 Weight:	1.00
Name: 00BW1811_3	Len:	106	Check: 365	7 Weight:	1.00
Name: 00BW1859_5	Len:	106	Check: 613		1.00
Name: 00BW1880_2	Len:	106	Check: 582		1.00
Name: 00BW1921_1	Len:	106	Check: 460	5 Weight:	1.00
Name: 00BW2036_1	Len:	106	Check: 614	5 Weight:	1.00
Name: 00BW2063_6	Len:	106	Check: 718	7 Weight:	1.00
Name: 00BW2087_2	Len:	106	Check: 954	J	1.00
Name: 00BW2127_2	Len:	106	Check: 489		1.00
Name: 00BW2276_7	Len:	106	Check: 731	1 Weight:	1.00
Name: 00BW3819_3	Len:	106	Check: 487		1.00
Name: 00BW3842_8	Len:	106	Check: 180	_	
Name: 00BW3871_3	Len:	106	Check: 665		1.00 1.00
Name: 00BW3876_9	Len:	106	Check: 668		
Name: 00BW3886_8	Len:	106	Check: 870		1.00
Name: 00BW3891_6	Len:	106	Check: 854		1.00
Name: 00BW3970 2	Len:	106	Check: 937		1.00
Name: 00BW5031 1	Len:	106	Check: 777		1.00
Name: 96BW01B21	Len:	106	Check: 648		1.00
Name: 96BW0407	Len:	106	Check: 422		1.00
Name: 96BW0502	Len:	106			1.00
Name: 96BW06 J4	Len:	106			1.00
Name: 96BW11_06	Len:	106			1.00
Name: 96BW1210	Len:	106			1.00
Name: 96BW15B03	Len:		Check: 640		1.00
Name: 96BW16 26		106	Check: 298		1.00
Name: 96BW17A09	Len:	106	Check: 535		1.00
Name: 96BWMO1 5	Len:	106	Check: 677		1.00
Name: 96BWMO3_2	Len:	106	Check: 595		1.00
Name: 98BWMC12_2	Len:	106	Check: 633		1.00
	Len:	106	Check: 690	3 1	1.00
Name: 98BWMC13_4 Name: 98BWMC14_a	Len:	106	Check: 745	B Weight:	1.00
Name: 98BWM014 1	Len:	106	Check: 402		1.00
	Len:	106	Check: 570		1.00
Name: 98BWM018_d	Len:	106	Check: 774	l Weight:	1.00
Name: 98BWMO36_a	Len:	106	Check: 544	Weight:	1.00
Name: 98BWMO37_d	Len:	106	Check: 822	Weight:	1.00
Name: 99BW3932_1	Len:	106	Check: 111:	Weight:	1.00
Name: 99BW4642_4	Len:	106	Check: 889		1.00
Name: 99BW4745_8	Len:	106	Check: 3424		1.00
Name: 99BW4754_7	Len:	106	Check: 5468	Weight:	1.00
Name: 99BWMC16_8	Len:	106	Check: 6656		1.00
Name: A2_CD_97CD	Len:	106	Check: 6086		1.00
Name: A2_CY_94CY	Len:	106	Check: 4609	Weight:	1.00
Name: A2D97KR	Len:	106	Check: 2120	Weight:	1.00
Name: A2G_CD_97C	Len:	106	Check: 4405	<b>5</b>	
Name: A_BY_97BL0	Len:	106	Check: 913	Weight:	1.00
Name: A_KE_Q23 A	Len:	106	Check: 3380	Weight:	1.00
Name: A_SE_SE659	Len:	106	Check: 4192	_	1.00
			-MCCA: 4192	Weight:	1.00

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Len: 106 Check: 3244 Weight: 1.00
Len: 106 Check: 5495 Weight: 1.00
Len: 106 Check: 5492 Weight: 1.00
Len: 106 Check: 5492 Weight: 1.00
Len: 106 Check: 4254 Weight: 1.00
Len: 106 Check: 4254 Weight: 1.00
Len: 106 Check: 4287 Weight: 1.00
Len: 106 Check: 2987 Weight: 1.00
Len: 106 Check: 5133 Weight: 1.00
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Len:
 Name: A_SE_SE725
                                                                      Len:
                                                                                           106 Check: 3244 Weight:
                                                                                                                                                                               1.00
 Name: A SE SE753
                                                                     Len:
                                                                                           106 Check: 1918 Weight:
                                                                                                                                                                               1.00
 Name: A SE SE853
                                                                    Len:
                                                                                          106 Check: 5495 Weight:
 Name: A SE SE889
 Name: A SE UGSE8
 Name: A UG 92UG0
 Name: A UG U455
 Name: AC IN 2130
 Name: AC RW 92RW
 Name: AC SE SE94
 Name: ACD SE SE8
 Name: ACG BE VI1
 Name: AD SE SE69
 Name: AD SE SE71
 Name: ADHK NO 97
 Name: ADK CD MAL
 Name: AG BE VI11
 Name: AG NG 92NG
 Name: AGHU_GA_VI
 Name: AGU CD Z32
 Name: AJ BW_BW21
 Name: B_AU_VH AF
 Name: B CN RL42
 Name: B_DE_D31 U
Name: B DE HAN U
 Name: B_FR_HXB2
 Name: B_GA_OYI M
 Name: B_GB_CAM1_
Name: B_GB_GB8_A
Name: B_GB_MANC
Name: B_KR_WK AF
Name: B_NL_3202A
Name: B_TW_TWCYS
Name: B US BC LO
Name: B_US_DH123
Name: B_US_JRCSF
Name: B_US_JRCSF
Name: B_US_MNCG_
Name: B_US_P896_
Name: B_US_RF_M1
Name: B_US_SF2_K
Name: B_US_WEAU1
Name: B_US_WR27_
Name: B_US_WR27_
Name: BF1_BR_93B
Name: C_BR_92BR0
Name: C_BW_96BW0
Name: C_BW_96BW1
Name: C_BW_96BW1
Name: C_BW_96BW1
Name: C_ET_ETH22
Name: C_IN_93IN1
Name: C_IN_93IN9
Name: C_IN_93IN9
Name: C_IN_94IN1
Name: C_IN_95IN2
Name: CRF01_AE C
Name: CRF01_AE C
Name: CRF01 AE C
Name: CRF01_AE T
Name: CRF01 AE T
Name: CRF01 AE T
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00BW0762_1 .....MI ELIAAVDYRI GVA.ALIIAL IIAIVVWTIA YIEYRKLLKQ
00BW0768_2 .....ML ELTARVDYRL GVG.ALIVAI ILAIVVWIWA YIEYKELLRQ
00BW0874_2 .....ML GLSEKAGYAL GVG.ALIVAL IIVIVVWTIV YIEYRKLVRQ
         ......MI NLLERVDX.. GVG.ALGIAL IIVIVVWTIV YIEYRKLVRQ
00BW1471 2
00BW1616 2
         ..... ... ... MLDLDYKV AVG.AFTVAL ILAIVVWILV YREYRKLLRO
00BW1686 8
         ...MEDVILS FIA.KIDYRI GIA.AIIVAL ILAIIVWTIV YLEYRKLVRQ
00BW1759_3
         .....MID LSA.RVDYRI GVA.AFIIAL IIAIVVWTIV YIEYRKLLRQ
00BW1773_2 MLKLATIVDY ILAAKVDYRV GIG.ALIAAL IITIVVWIIV YREYRKLLRQ
         ...IVDVIFS LTD.RVDYRI AVA.ALTIAL IIAIVVWTIV YIBYRKLVRQ
00BW1783 5
         .....MVD WTKXKVDYRI AVV.AFIVAL IIAIVVWTIV YIEYRKLRKQ
00BW1795 6
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00BW1859_5	ML	ELTARVDYRL	GVG.ALIVAL	IIAIIVWTIA	STEVENTEDO
00BW1880_2	وبرايا	LMT.RVDYRI	AVA. AFVIAL	TLATTUMPTA	VI.EVDVI UVA
00BW1921_1	· · · · · · МШО	LAA.IVDYRI	TIV. AFATAI.	ΤΤΔΤΤΙΜ <b>ΥΤ</b> Α	VI PVDVI IDO
00BW2036_1	· · · · · · · · · · · · · · · · · · ·	DPIWKADAKA	GIG.ALIVAL	ΤΤΆΝΛΛΜΤΤΝ	VTEVDVTTVO
00BW2063_6	MITD	WIE.QVDYRI	AIVXSFIVAL	$TT\Delta TUTW TUT$	VIEVDVI CDA
00BW2087 <u></u> 2	ML	SLIERIDYRL	GVG.ALIVAT	TTVTTVWTTV	VIEVDVIIMO
00BW2127_2	ML	DLAARVDYRL	GVG ALVVAL	IIAIIVWTIV	TIETKVTAKÓ
00BW2276_7		VDLGRVDYRL	GVG. AT TVAL	VIIWVVIA	TIETKYPAKÖ
00BW3819 3	ML	DLLTRVDYRI	GVG ALTVAL	IIAIIVWTIA	TIEXKKTAKÖ
00BW3842 8	MF	DLLAGVDYRT	GVG ALTEAL	IIAIIVWVIA	ATEAKKPPEÖ
00BW3871 3	MVD	LLE KVDYRT	GTA AFTUAL	LIAIVVWVIA	ATEAKKMPKÖ
00BW3876 9	M	LDLTOTGVEL	GIG ALTUAL	LIAIIVWIIA	YIEYRKLVRQ
00BW3886 8		MI'YZYWA'IM	CVC ALTERAL	ITALIAMLIA	YIEYRKVLRQ
00BW3891 6	MT,	דייייייייייייייייייייייייייייייייייייי	CVC ABLIVAL	TTATIAMLIA	YIEYRKLVRQ
00BW3970 2	ME	CLLEDIDVDI	GVG.AFLVAL	SIAIVVWTIV	YIEYRKLLRQ
00BW5031 1	M	ENTERIDADI PUTEKIDIKI	GVG.ALLVAL	IIAIVVWAIV	YIEYRKLVRQ
96BW01B21	MT	EL LYKLDADI LWDLEADIKD	TIG.AFIVAL	FLAIVVWTIA	YLEYRKLVRQ
96BW0407	MT	EDIAKIDIKD	GGG.ALIVAL	SIAIVVWIIA	YIEYKKLIRQ
96BW0502	MT	SLAA. IDYRI	GVG.AFVVAL	IIAIIVWIIV	YIEYRKLVRQ
96BW06 J4	TM	MATTERANTAR	GVG.ALIVAF	AIIWVVIAI	YIEYRKLLRQ
_	MID	LLA.RVDYRI	GLA.AFVVAL	LIAIIVWTIV	YLEYRKLVRQ
96BW11_06	MVD	LLA.KVDYKI	AVA.AFIIAL	TTATWWTTT	VIJEVDYTIJIKO
96BW1210	ML	YLLEKVDYRL	GVG.ALITAL	TTATTIMITTA	VI.EVEVIII DO
96BW15B03	MVN	FLAAKVDYRL	GVG.ALIVAL	TTATVIMISTV	VIEVVVIIVO
96BW16_26	MF	SLLAKVDYRV	GVG.ALIVAL	TTATTWITTY	VIEVDVIIDO
96BW17A09	· · · · · · · · · ML	NLLAKVDYRL	GVG.ALVIAL	ATTWWTTA	VTEVDYIIMA
96BWMO1_5	MID	WTA.RVDYRV	AVV.AFIVAL	TT.ATTWITTA	VI.EVDVI CVO
96BWMO3_2	ML	SLAALVDYRL	GVG.ALIVAL	TTATTWWTTV	VT.FVDKT:VDO
98BWMC12_2	MV	ATGEKEIAIF	GIG.ALIVAL	TTATVVWSTA	VTEVDETIMO
98BWMC13_4	MSN	WTA.RVDYRI	AIA.AFIVAL	TTATWWTTV	VIEVEVI CDO
98BWMC14_a	MLD	LTE.GVDYRI	GIA. AFAVAL	FIAIIVWIIV	ALEADATANO
98BWMO14_1	ML	ELLEKVDYKI	TVA AFTVAL	AITWVVIA	TTEXESTATE
98BWM018 d	ML	DLIARVDYRT	GVG ALTVAL	VITWVIIAII	TTEXKKPPKÖ
98BWMO36_a	ML	AFLARVDYRL	GVG AFITAL	IIAIIVWIIA	ATEAKKTAKŐ
98BWM037 d	ML	NI VARVOVRI	GVG ALTYAL	VITWVVIAII	YLEYRKLVRQ
99BW3932 1	• • • • • • • • • • • • • • • • • • • •	MIENTOVEL	GVG.ALIVAL	LIMIVALIA	ATEAKKTAKÖ
99BW4642 4	MT.	DI-TARVIOVET.	GVG.ALIVAL	IIAIVVIIV	YIEYRKLVRQ
99BW4745 8	MT	NI, TARVIDUE.	GVG ALTEAT	IIAIVVWTIV	YLEYRKLQRQ
99BW4754 7		MI ELDVOT	GVG.ADIIAL	IIAIVVWTIA	YIEYRKLLKQ
99BWMC16 8	MF	MI'Y V DADAKT	CVC ATVIAG	TTATAAALTA	YIEYRKLRRQ
A2 CD 97CD		MEDIATIC	GVG.ALVIAG	IIAIVVWTIV	YIEYRKLSRQ
A2_CY_94CY	••••••	MSPLATLS	IVGLVVAS	ILAIVVWTVV	FIEYRKIKKQ
A2D 97KR	• • • • • • • • • • • • • • • • • • • •	AUTATION	IVGLIVAL	ILAIVVWTIV	FIEYKKIKKQ
A2G CD 97C		MNSTOTINS	IVG. LIVAF	ILAVVVWTIV	FIEYKKIKKQ
A_BY_97BL0	• • • • • • • • • • • • • • • • • • • •	. MQALEISA	IVGLIVAF	IAATVVWTIV	YIEYRKIRKQ
A_KE_Q23_A		. MTPLXIYA	IVALVVVF	VIXXVVWTIV	GIXYXXLLKQ
	• • • • • • • • • • • • • • • • • • • •	MSPLEISA	IVG. LIVAT	ΤΤ.ΔΤΔΥωπτι	CIEVERTORO
A_SE_SE659	• • • • • • • • • •	MQSLVILA	IVA. LVVVT.	$TT\Delta TTMMTTTT$	PTPWCDIDDO
A_SE_SE725	• • • • • • • • • •	.MLPLSTIWA	IIGLIVAL	TTATWWTTW	GIEVVVIIVO
A_SE_SE753	• • • • • • • • • •	• • MITSTOIMA	IAG. LIVAT	TT, ATTAWTTW	CTEVEVIIVA
A_SE_SE853	····.MSA	PRISALEIMS	IVGLVVAL	ILAIVVWTTV	GTECKELOKO
A_SE_SE889	• • • • • • • • • •	. MTPLEIWA	IVGLVVVS	ITATVVWTTV	GTEVVVIIVO
A_SE_UGSE8	• • • • • • • • •	MSPLEIWA	IVG. LIVAL	TT.ATIMMTIT	CT PVVVT VDO
A_UG_92UG0		. MOLLEICA	VVG . T.VVAT.	TTAT\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	OT BUILTET T TO
A_UG_U455_		· · MITPLEIWA	IIG. LIVAL	$TT_{i}\Delta TTTTMTTTT$	CIP VVIIVA
AC_IN_2130	• • • • • • • • • •	MLNLNYEL	AVG.ALIVAL	IIAIVVWTIV	VVEABALT DV
AC_RW_92RW	• • • • • • • • •	. MISLEIYA	IVA. LIVAL	TTVTVXXXTT.X	CTEVEETIE
AC_SE_SE94	ML	DLLAEIDYRT	GVG.AFTTAT.	ALIWVVVAIIA	ATEADAL ATEITVVNTVÕ
ACD_SE_SE8	• • • • • • • • • •	MOPLEICS	IVG TIVAT	ILAIVAWTIV	TTEIKKTVKQ
ACG BE VI1	ML	ELLAOVDYRT	GVG AT.TT.AT	FIAIVVWIIA	GTETKKTPKÖ
AD SE SE69	• • • • • • • • • •	. MOSLVII.c	TVA TANAT	VIAIVVWIIA	TUEXKKTAKÓ
AD SE SE71	• • • • • • • • •	MISTITUTO	TVG TTTT	VIAIVVWTIV	FIEYRRLERQ
ADHK NO 97	••••	MVTT.GT	CTC ATTIME	IIVIVVWTIV	GTEXKETTEG
			GTG. WDI AWL	TTATAMLIA	YLEYRKLVKQ

ADE CD MAT		TAB			
ADK_CD_MAL	• • • • • • • • • • • • • • • • • • • •	· · TOPLVILA	IVALVVTL	VITWVVIAII	FIEIRKIRRQ
AG_BE_VI11	• • • • • • • • • • • • • • • • • • • •	MQSLEIAA	VVGLIVAF	IAAIIVWTIV	FIEYRKIRKQ
AG_NG_92NG	• • • • • • • • • •	MQSLEIAA	IAGLVVAA	IAAIVVWTI.	KIKKQ
AGHU_GA_VI	• • • • • • • • • • • • • • • • • • • •	MYILGI	GIG.ALVVAF	IIAIVVWTIA	YIEYRKLLRQ
AGU_CD_Z32	• • • • • • • • • •	MQFLEIAS	IVGLIVAV	LAAIVVW	. IEYRKIRKE
AJ_BW_BW21	• • • • • • • • • • • • • • • • • • • •	MRPLQIAA	IVGVIVAI	FLAIVVWTIV	YIEYKRLVRO
B_AU_VH_AF	• • • • • • • • • • • • • • • • • • • •	MQSLQIVA	IVALVVVT	IIAIVVWTIV	FIEYRRILRO
B_CN_RL42_	• • • • • • • • • • • • • • • • • • • •	MQALTILA	IVALVVVA	VITWVVIAII	LLEYRKILRO
B_DE_D31_U	• • • • • • • • • • • • • • • • • • • •	MQSLQVAA	IVALVVVA	IIAIVVWTIV	FIEVRKILRO
B_DE_HAN_U	• • • • • • • • • • •	MLSLQIAA	IVALVVAA	IIVIVVWTIV	VIEVERTURO
B_FR_HXB2_		TQPIPIVA	IVALVVAI	IIAIVVWSIV	TIEVPKTI.DO
B GA OYI M		IYSLOILA	IVA. LVVVT	IIAIVVWTIV	LIETRKILKO
B GB CAM1		MLPLOTA	TVA. T.VVVA	IIAIVVWTIV	DIETKYTUKO
B GB GB8 A	· · · · · · · · · · · · ·	IOILT	TVA LVVAG	IVAIVVWIIV	FIEIRKIRRO
B GB MANC			יייעעעעד בעד	IIAIVVWTIV	PIETRKITKK
B KR WK AF	• • • • • • • • • • • •	Δ.ΤΤΔ.Τ.ΤΟΜ	TVG TAKAN	ILAIVVWFIV	FIERKKITKÖ
B NL 3202A	• • • • • • • • • • • • • • • • • • • •	. ΜΟΡΙΙΥΙΑ	TWOLVVAA	ILAIVVWFIV	FIENKKITKÖ
B TW TWCYS		MODI.UTIA	TVAUVVVA	TIAIVVWSIV	FIEYRKILRQ
B US BC LO		MODICIA	TVAUVVAA	IIAIVVWTIV	LLEYRKILRQ
B US DH123		MODITATE A	IVALVVVG	IIAIVVW	KILRQ
B US JRCSF		WODI OTI A	IVALVVAL	IIVIVVWSIV	LIEYRKILRQ
B US MNCG		MODITION	IVALVVAG	IIAIIVWSIV	LIEYRKILRQ
B_US_PROCG		MQPLVIAA	IVALVVAG	VI. SVVIAII	FIEYRKIRRQ
		MLSLQILA	IVALVVAA	IIAIVVWSIV	FIEYRKILRQ
B_US_RF_M1	• • • • • • • • • • • • • • • • • • • •	MQSLEILA	IVALVVAA	ILAIVVWTIV	GIEIRKTLRQ
B_US_SF2_K	• • • • • • • • • • • • • • • • • • • •	MQSLQILA	IVSLVVVA	<b>IIAIVVWTIV</b>	LIEYRKILRQ
B_US_WEAU1	• • • • • • • • • • •	MQSLQILA	IVALVVAG	IIAIVVWSIV	LIEYRKILRQ
B_US_WR27_	• • • • • • • • • • •	MPLYILA	VVALVLAA	IIAIVVVTIV	FIEYRKILRQ
B_US_YU2_M	• • • • • • • • • •	LQSLQVLA	IVALVVAT	VITWVVIAII	FTEVPKTT.PO
BF1_BR_93B	• • • • • • • • • •	MSYLLV	IGLAALIAAL	IIAIVVWTTA	VTEVPELVPO
C_BR_92BR0	ML	ELIGRIDYRL	GVG.ALIVAL	IIVIIVWTTA	VTEVDKLVDO
C_BW_96BW0	IM	SLAARVDYRI	GVG.AFIVAL	IIAIIVWTTV	VIEVEKTAPO
C_BW_96BW1	MVD	LLA.KVDYKI	AVA.AFIIAL	VIIWVVIAII	YVEYRKTVKO
C_BW_96BW1	ML	YLLEKVDYRL	GVG.ALIIAL	IIAIIVWTIA	ALEABKATEO
C_BW_96BW1	MVN	FLAAKVDYRL	GVG.ALIVAL	IIAIVVWSIV	
C_ET_ETH22	MV	DLLAKVDYRI	VIV.AFIVAL	AITWVVIAI	
C_IN_93IN1		MIDLYRL	GVG.ALIVAL	IIAIVVWTIV	
C_IN_93IN9		MLDLDYKL	AVG.ALIVAL	AIIWVVIAII	VIEVDRIVEO
C_IN_93IN9		IIDLDYRL	GVG.ALIVAF	IIAIVVWTIV	AIRADALLBU
C_IN_94IN1		MLDLKL	AVG. ALTVAL	VITWVVIAII	TIVIKVTTKÖ
C_IN_95IN2		MVNLDYKL	GVG. ALTVAT	VITWVVIAII	TIEIRRIVAQ
CRF01 AE C		MSALOTA	TVG TITVAL	VITWVVIALI	I TETKVTA A Ö
CRF01 AE C		. RIPLHTCA	TVG LTVAL	IIAIVVWTIV	RIEAKKITKŐ
CRF01 AE C	• • • • • • • • • • • • • • • • • • • •	. MIPLOTSA	TVP LTVAL	ILAIVVWTLV	ATEXKKTKKÖ
CRF01 AE T	•••••	MSPLETSA	IVG. LIVAI	TIMINAMITA	ATEXETTE. O
CRF01 AE T			IVGLIVAL	ILVIVVWTIV	
CRF01 AE T		MHT.WKT.A	IVG. LLVAL	ILAIVVWTIV	ALEFKKILRQ
CRF01 AE T	• • • • • • • • • • • • • • • • • • • •		VVGLIVVL	ILAIVVWTIV	ALEFKKILRQ
CRF01 AE T	• • • • • • • • • • • • • • • • • • • •		IVG. LIVAL	ILAIVVWTIV	GILKKILR.Q
CRF01 AE T	• • • • • • • • • • • • • • • • • • • •		IVG. LIVAL	ILAIVVT.IV	AIEVKKILRQ
CRF02 AG F	• • • • • • • • • • • • • • • • • • • •			ILAIVVT.IV	
CRF02_AG_F	• • • • • • • • • • • • • • • • • • • •		IVGLVVAF	VIAWVVIAAI	
CRF02 AG G	• • • • • • • • • • • • • • • • • • • •	MKSLEIAA		IAGIVVWTIV	
	• • • • • • • • • • • • • • • • • • • •	MQSLEIAA	IVGLVVAF	VIIWVVIAAI	
CRF02_AG_N			IVGLVVAF	VISWVVIAAI	YIEYRKIRKQ
CRF02_AG_S	• • • • • • • • • • • • • • • • • • • •		IVGLVVAF	VITWVVIAAI	YIEYRKIRKQ
CRF02_AG_S	• • • • • • • • • • • • • • • • • • • •	MQPLAVAA	IVGLVVAF	ILAIVVWTIV	FIEYRKTRKO
CRF03_AB_R	• • • • • • • • • • • • • • • • • • • •	AAIAJZOM	IVALVVVG	IIAIVVGSIV	FIEYRKTIRO
CRF03_AB_R	• • • • • • • • • • • • • • • • • • • •	MQFLVIAA	IVALVVGG	IIAIVVWSIV	FIEYRKILRO
CRF04_cpx_	• • • • • • • • • • • • • • • • • • • •	MLFWEIWA	IVGLVVAL	U.TTWVVIVI	FTEVKKT.PPO
CRF04_cpx_	M	SSLSSLEIWT	IVALIVAL	IIAIVVWTTV	VTRVKKI.OPO
CRF04_cpx_	M	SSMSSLQVWA	ITALIVAL	IIAIIVWTIA	LIEYRKLLRO
CRF05_DF_B	• • • • • • • • • • • • • • • • • • • •	MSDLLT	IAVVALIVAL	VIIWVVIAII	YIEYKKLVRO

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CRF05_DF_B ......MSDLLA VAIAAFIVAL IIAIVVWTIV YLEYRKLVRO
CRF06_cpx_ ............MQALEIAA IVG..LVVAF LAAIVVWTIV FIQYREIRKQ
CRF06_cpx_ ...... ..MQSLEISA IVG..LVVAF LAAIVVWTIV FIQYREIRKO
CRF06_cpx_ ...........MQPLEISA VVG..LIVAF LAAIVVWTIV YIQYREIRKO
CRF06_cpx_ ...... ..MQPLEISA IVG..LIVAF LAAIVVWTIV FILHRQIKKQ
CRF11_cpx_ ...... ..MIPLQIAG IVA..LIVAA IIVIIVWTIV FIEYRKLLKO
          CRF11_cpx
D CD 84ZR0
D_CD_ELI_K ...............MQPLGIIA IAA..LVVAI ILAIVVWTIV FIEYRRIKKQ
D_UG_94UG1 .....MQPLEILA IVA..LVVAL ILAIVVWTIV FIECKKLRRQ
F1_BE_VI85 .....MSYLLA IGIAALIVAL IIAIVVWTIV YIEYKKLVRQ
F1_BR_93BR ......MSNLLA IGIAALIVAL IITIVVWTIA YIEYKKLVRQ
F1_F1_F1N9 ........................MSDLLA ITIVAFIVAL IIVIVVWTIV FIEYKKLVRQ
F1_FR_MP41 .................MSNLYV LSIVAFIIAL IIAIVVWTIV FIEYKKLLRQ
F2_CM_MP25 ...... MSLSLI VVIAAYIVVL ILAIIVWTIV YIEYKKILRQ
F2KU_BE_VI .....MNL.LL VGIGALIVAF LLAIVVWTIA YLEYRKVLKQ
G_BE_DRCBL ............MQPLEISA IVG..LIVAS IAAIVVWTIV FIEYRKIRKQ
G_NG_92NG0 .........MQALEIS. .....LIVAF IAATIVWSIV FIEYRKIRKQ
G_SE_SE616 ...............MQSLVILA IVG..LIVAF IAAIVVWTIV FIEYREIRKQ
H_BE_VI991 ....... MNILGI GIG.ALVVAF IIAIVVWTIA YIEYRKLK.Q
H_BE_VI997 ..... MYIIGI GIG.ALIVAF IIAIVVWTIV YIEYRKLVKQ
H_CF_90CF0 .....MYILGL GIG.ALVVTF IIAVIVWTIV YIEYKKLVRQ
J_SE_SE702 ....... ..MVSLQIVA IVA..LIVAF FLAICVWTIV YIEYKKLLRQ
J_SE_SE788 ...... ..MIPLQIAA IVA..FIVAI FLAIGMWTIV YIEYKKLLRQ
K_CD_EQTB1 .....MVPLT VGIIALVAAL ILAIIVWTIA YLEYRKVVRQ
K_CM_MP535 ......MVSLA ISIVALVVAL ILAIIVWTIV YIEYRKLVKQ
N_CM_YBF30 ......MLS LGFIALGAAV SIAVIVWALL YREYKKIKLQ
O_CM_ANT70 ...........MHHRDLLA III..ISALL FINVILWGFI LRKYLEQKEQ
O_SN_99SE_ ...........MHHRDLLA LIT..TSALL LTNVVLWTFI LRQYLKQKKQ
O_SN_99SE
          U_CD___83C ...........MSILQIVA IVA..IIVAL ILAIVVWTIV YIEYKRLLRQ
                                                          100
00BW0762_1 KKIDR....L IKRIIERAED SGNESDGD.H EEL....STM VDMGHLRLLD
00BW0768_2 RKIDW....L IKRIRERAED SGNESEGD.T EEL....STM VDMGQLRLLD
00BW0874_2 RKID....L IKRIRERAED SGNESDGD.T EEL...STM VDMGNLRLLD
00BW1471_2 KKIDQ....L VKRIREREED SGNESDGD.I EEL....STM VDMGHLRLLD
00BW1616_2 KRIDN....L IKRIRERAED SGNESDGD.T EEL....STL VDMGNLRLLD
00BW1686_8 RKIDR....L IERIKEREED SGNESEGD.T EEL....ATM VDMGQLRLLD
00BW1759_3 RKINW....L IERIRERAED SGNESEGD.T EEL....ATM VDMGHLRLLH
00BW1773_2 KKIDR....V LEKIRERAED SGNESEGD.L EEL....STL VDVEHLRLVD
00BW1783_5 RKIDR....L IERIRERAED SGNESDGD.Q EEL....STM VDMGHLRLLD
00BW1795_6 RKINW....L IERIRERAED SGNESDGD.Q EEL....ATM VDMGHLRLLD
00BW1811_3 AKIDK....I IKRIRERAED SGNESEGD.I EEL....STM VDMGHLRLMD
00BW1859_5 RKIDW....L IKRIRERAED SGNESEGD.T EEL....ATM VDMGHLRLLD
00BW1880_2 KKIDW....L IERIRERAED SGNESDGD.H EEL....STM VDMGHLRLLD
00BW1921_1 RKIDR....L IKRIRERAED SGNESEGD.T EEL....ATM VDMGQLRLLG
00BW2036_1 RKIDW....L IKRIRERAED SGNESEGD.I EEL....ATM VDMGHLRLLD
00BW2063_6 RKIDW....L IKRIRERAED SGNESDGD.H EEL....ATM VDLGHLRLLD
00BW2087_2 RKLDW....L VKRIRERAED SGNESDGD.V EEL....STM VDMGHLRLLD
00BW2127_2 RKIDW....L IKRIGERAED SGNESEGD.T EEL....ATM VDMGHLRLLD
00BW2276_7 RKIDW....L VKRIRERAED SGNESEGD.T EEL....ATM VDMGHIRLLD
00BW3819_3 RKIDW....L IKRIREREED SGNESEGD.T EEL....AAM VDMGHLELLG
00BW3842_8 KKIDW...L IERIRERAED NGNESEGD.T EEL...ATM VDMGHLRLLD
00BW3871_3 RKIDW....L IKRIRERAED SGNESEGD.T EEL....ATM VDMGQLRLLD
00BW3876_9 RKIDR....L IKRIRERAED SGNESEGD.I EEL....EAI VDMGHLRLLG
00BW3886_8 RKIDW....L IKRIRERAED SGNESEGD.I EDL....AMV VDMGQLRLLD
00BW3891_6 KRIDR...L IERIRERAED SGNESEGD.I EEL...STM VDMGHLRLLD
00BW3970_2 RRLDW....L VKRIRERAED SGNESEGD.N EEL....STV VDLGHLRLLD
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00BW5031_1 RRIDQ....L VKRIRERAED SGNESDGD.T EEL....STM VDMGHLRLLD
  96BW01B21 RRINW....L IERIRERAED SGNESEGD.T EEL....STM VDMGHLRLLD
   96BW0407 RKIDW....L VKRIRERAED SGNESDGD.T EEL....STM VDMGHLRLLD
   96BW0502 RKIDR....L IRKIRERAED SGNESDGD.I EEL....SAM VDVGHLRLLD
  96BW06_J4 RKIDW....L IKRIRERAED SGNESEGD.T EEL....ATM VDMGQLRLLD
  96BW11_06 RKIDW....L IERIRERAED SGNESDGD.H EEL....STM VDMGHLRLLD
   96BW1210 RRIDR....L VERIREREED SGNESEGD.I EEL....STM VDMGHLRLLD
  96BW15B03 KNIDW....L IKRIRERAED SGNESEGD.T EEL....ATM VDMGHLRLLD
  96BW16_26 KKIDR....L IERIRERAED SGNDSEGD.I EDL....STM VDMDHLRLLD
  96BW17A09 RKLDE....L VKRIRERAED SGNESDGD.I EEL....STM VDMGHLRLLD
  96BWMO1_5 RKIDC...L IKRIRERAED SGNESDGD.Q EEL...ATM VDMGRLRLLD
 96BWMO3_2 RKINW....L VKRIRERAED SGNESEGD.T EEL....ATM VDLEHFGLLD
98BWMC12_2 RRIDQ....L IKRIGERAED SGNESDGD.T EEL....STL VDMGHLRLLD
98BWMC13_4 RKIDR....L IKRIRERAED SGNESDGD.Q DEL....ATM VDMGHLRLLD
98BWMC14_a RKIDW...L IERIRERAED SGNESEGD.T BEL...ATM VDMGQLRLLD
98BWMO14_1 RKIDC...L IKRIRERAED SGNESDGD.T EEL...STM VDMGNLRLLD
98BWMO18_d RKIDW...L IKRIRERVED SGNESDGD.T EEL...STL VDMGNLRLLD
98BWMO18_d RKIDW. L IKRIRERVED SGNESDGD.T EEL. STL VDMGNLRLLD 98BWMO36_a KKIDR. L IERIRERAED SGNESEGD.T EEL. STM VDMGHLRLLD 98BWMO37_d RKIDQ. L VKRIRERAED SGNESEGD.T EEL. STM VDMGNLRLLD 99BW3932_1 RKIDW. L IKRIRERAED SGNESEGD.T EEL. ATM VDMGHLRLLD 99BW4642_4 RRIDW. L IKRIRERAED SGNESEGD.T EEL. ATM VDMGHLRLLD 99BW4745_8 KKIDW. L IKRIRERAED SGNESEGD.T EGL. STM VDMGHLRLLD 99BW4754_7 RKIDR. L IERIRERAED SGNESEGD.T EGL. STM VDMGHLRLLD 99BWMC16_8 RKINE. L IERIRERAED SGNESDGD.Q EEL. SAM VDMGHLRLLD A2_CD_97CD RKIDW. L LERISERAED SGNESDGD.T EEL. STM VDLGHLGLLD A2_CY_94CY RKIDW. L IKRISERAED SGNESDGD.T EEL. SKM VGMGNLGFWD A2_CY_94CY RKIDW. L IKRISERAED SGNESDGD.T EEL. SAL VERGHLDFGD A2_CD_97KR NKIDW. L IKRISERAED SGNESEGD.T EEL. STL MEMGNLDFGD A2G CD_97C KRIER. L LDRIGERAED SGNESEGD.A EEL. AKL VEMGGEDDWU
A2G_CD_97C KRIER....L LDRIGERAED SGNESEGD.A EEL....AKL VEMGGFDPWV
              RKIDR....L XERXXXRAED SGNESEGD.A XEL....STL MEVXNYALLD
A_BY_97BL0
A_KE_Q23_A RKIDR....L IERIRERAED SGNESDGD.T EEL...STL IDMGDYDLGD
A_SE_SE659 R.KDR....L IERIRERAED SGNESDGD.T EEL....SAL IEMGNYNLGF
A_SE_SE725 RKIDK...L VERIRERAED SGNESDGD.T NEL...AAL IEMGNYNLGD
A_SE_SE753 KEIDG....L VERIAERAED SGNESDGD.T EEL....STL IEMGNYDLGV
A_SE_SE853 RKIDR....L IERIRERAED SGNESEGD.T EEL....SAL IEMGNYDLGN
A_SE_SE889 RKIDR....L IRRISERAED SGNESDGD.T DEL....AKL VEMGNYDLGD
A_SE_UGSE8 RKIDR....L IERIRERAED SGNESDGD.T EEL....STL IELGDYDLGD
A_UG_92UG0 RKIDR....L VDRIRERAED SGNESDGD.R EEL....SLL VDMGDYDLGD
A_UG_U455_ KKIDR....L LNRIRERAED SGNESDGD.T EEL....SLL VEMGNYDLGV
AC_IN_2130 RKIDR....L IKRIRERAED SGNESEGD.T EEL....STM VDMGQLRLLD
AC_RW_92RW RKIDR....L IKKIRERAED SGNESDGD.I DEL....SKL VGVGNYDLGD
AC_SE_SE94 RKIDW....L IKRIRERAED SGNESDGD.T EEL....STM VDMGHLRLLD
ACD_SE_SE8 KKIDR....L IERIRERAED SGNESDGD.T EEL....AAL VEMGNYDPGD
ACG_BE_VI1 RKIDW....L VKRIRERAED SGNESEGD.T EEL....STM VDMGELRLMD
AD_SE_SE69 KRIDW....L IDRIRERAED SGNESEGDRD ELS....EL. VEMGHPAPWD
AD_SE_SE71 RKIDR....I LDRIRVRAED SGNESDGD.T EEL....SKL IDMGNYDLGD
ADHK_NO_97 KRIDQ....L IERIRERAED SGNESDGD.T EEL....SEL VEMGRLNLGY
ADK_CD_MAL RKIDR....L IDRIRERAED SGNESEGDTE ELS....KL. VEMGHDAPWD
AG_BE_VI11 KKIEK....L PDRIRERAED SGNESEGD.T DEL....ATL VERGNFDPWV
AG_NG_92NG EKIDR....L LDRIRERAED SGNESEGD.T EEL....ATL VDMVDFDPWV
AGHU_GA_VI RKIDW....L IRRISERAED SGNESDGD.T EEL....STL VEMGNHNPGY
AGU_CD_Z32 KKIEY....L IDRIRKRAED SGNESEGD.T EEL....STL MEMGDFHPWV
AJ_BW_BW21 KKIDR....I IDRIGERAED SGNESDGD.T DEL....HKL VEMGPHDLWN
B_AU_VH_AF RKIDR....L IDRIAERAED SGNESEGD.Q EEL....AAL VEMGHHAPWD
             RKIDR....L IDRIRERAED SGNESDGD.Q EEL....SAF MEMGHHAPWD
B CN RL42
B_DE_D31_U RKIDR....L IDRIIERAED SGNESEGD.Q EEL....SAL VEMGHHAPWD
B_DE_HAN_U RKINR....L IDRLTERAED SGNESEGD.Q EEL....SAL VERGHLAPWD
              RKIDR....L IDRLIERAED SGNESEGEIS ALV....EMG VEMGHHAPWD
B FR HXB2
B_GA_OYI_M RKIDR....L IDRIRERAED SGNDSEGD.Q EEL....SAL VEMGHHAPWD
              KQVDR....L IDRIIERAED SGNESEGD.Q EEL....SAL MEMGHNAPWD
B GB CAM1
B_GB_GB8_A KKIDR....L IDRIIERAED SDNESEGD.Q EEL....SAL VEMGHHAPWD
B_GB_MANC_ RKIDR....L IDRIRERAED SGNESEGD.Q EEL....SEL VEMGHLVPWD
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B KR WK AF	WWTDD I	TDD 70777			
	KKIDK	IDRIKERAED	SGNESEGD.Q	EELSAL	VEMGHHAPWD
B_NL_3202A	RKIDR	IDRIAERAED	SGNESEGD.Q	EELSAL	VEMGHHAPWD
B_TW_TWCYS	RKIDRL	IDRIRERAED		DELSAL	VEMGYHAPWD
B_US_BC_LO	RKIDRL	IKRISKRAED	-	EELSAL	VEMGHHALWD
B_US_DH123		IDRIRERAED	SGNESDGD.Q	EELSAL	VERGHLAPWD
B_US_JRCSF		IDKIRERAED	SGNESEGD.Q	EELSAL	VERGHLAPWD
B_US_MNCG_		IDRISERAED	SGNESEGD.O	EELSAL	VGMGHDAPWV
B_US_P896_	RKIDRL	IDRIREREED	SGNESEGD.O	EELAAL	ERG HT.ADWD
B_US_RF_M1	KKIDRL	IDRIRERAED	SGNESDGD.E	EELSAL	VENCHHA DWD
B_US_SF2_K	R.IDRL	IDRIREKAED	SGNESEGD O	EELSAL	VENCULARIO
B_US_WEAU1	RKIDRL	IDRIRDRAED	SGNESEGD O	EELSAL	VENCULIATION
B US WR27	RKIDRL	IDRIRERAED	SGNESEGD O	EELSAL	MEMCITIADAD
B US YU2 M	RKIDRL	INRITERAED	SCHESDOD O	EELSAL	MEMGHHAPWD
BF1 BR 93B	RKINRL	YKRIRERAED	SCHESECD A	EELAAL	VERGHLAPWD
C BR 92BR0	RRIDWT	VKETKEDAED	SCHERECCD TO	EELETM	GEMGPFIPGD
C BW 96BW0	RKTDWT	AKDIDEBYED	SCARSDOD T	BELETM	VDMGHLRLLD
C BW 96BW1	PKTDW T.	TEDIDEDIED	COMMODER T	EELSTM	VDMGHLRLLD
C BW 96BW1	ממבטוו	TEXTYERAND	SGNESDGD.H	EELSTM	VDMGHLRLLD
C BW 96BW1	ENITOW T	VERIREREED	SGNESEGD.I	EELSTM	VDMGHLRLLD
	VMIDMT	TKRIRERAED	SGNESEGD.T	EELATM	VDMGHLRLLD
C_ET_ETH22	RKIDKL	IKRTRERAED	SGNESDGD.T	EELSTM	VDMGNLRLLD
C_IN_93IN1	SKINW	IKRIRERAED	SGNESEGD.T	EELSTM	VDMGRLRLLD
C_IN_93IN9	KKIDW	IKRIRERAED	SGNESEGD.T	EELSTM	VDMGRLRLLD
C_IN_93IN9	KKIDW	IKRIRERAED	SGNESEGD.T	EEL STM	VIDMOUT.DT.T.D
C_IN_94IN1	KKTDM	IKRIRERAED	SGNESEGD.T	EELSTM	VDMGDT.DT.T.D
C_IN_95IN2	KKIDW	IKRIRERAED	SGNESEGD T	EEL STM	VIDMODT DI T.D.
CRF01_AE_C	KKIDK	IERIRERAED	SGNGSEGD.T	NEL ATT.	VEVGDEDDWV
CRF01_AE_C	KKIDK	VQRISERAED	SGNESEGD.T	EEL. AKT.	MEMCHEDDIA
CRF01_AE_C	RKIDRL	IERIRERAED	SGNESEGD . T	DELAKL	AEMCDEDDIM
CRF01_AE_T	RKIDRL	VKRIRERAED	SGNESEGD T	DELAKL	ARMODEDDIM
CRF01 AE T	RKIDRL	VKRIRERAED	SGNESEGD T	DELAKL	VENCDEDDING
CRF01 AE T	RKIDRL	VKRIREREED	SGNESEGD T	DKLAKL	VENGDEDENV
CRF01 AE T	RKIDRL	VKRIRERAED	SCHESECD T	DELAQL	VEMGDFDPWV
CRF01 AE T	RKIDR	VKRIRERAED	SCMEGECD T	DELAKL	VEMEDEDEMA
CRF01 AE T	RKIDR	TKRIGERAED	SCHEGECD W	DELAKL	VEMGDFDPWV
CRF02 AG F	KKTDK I	T.DDTDEDAGED	SCHECDOD A	EELSTL	VEMGDFDPWV
CRF02 AG F	KKTDK I.	TOKIKEKAED	SCHESDED. A	EELSTL	MEMGYD.HIL
CRF02 AG G	KKIDK I.	TOKIKEKAED	SGNESUGD. T	EELSTL	LEMGYD.NIL
CRF02_AG_N	KKIDD T	TDETTETT	SGNESEGD.A	EELSKL	MEMGHD.FWI
CRF02_AG_N	TATED T	TORIRERAED	SGNESDGD.T	EELSTL	MEMGYE.YIL
	CKIDKL	LURIRERAED	SGNESDGD.T	EELSTL	MEMGYD.NIL
CRF02_AG_S	GKIDK	LURIRERAED	SGNESDGD.T	EELSTL	LEMGYDNAAL
CRF03_AB_R	RKIDRL	IDRIRERAED	SGNESEGD.Q	EAL	MEMGHLVPWD
CRF03_AB_R	KKIDK	IDRIRERAED	SGNESEGD.O	E AT	MEMCHT. A DWD
CRF04_cpx_	KKIDS	YNRIRERAED	SGNESDGD.A	EELSTL	VCMCNEDDIM
CRF04_cpx_	KVTDKT	YKRIRERAED	SGNESDGD.T	EEL STL	VCMCDEDDWX
CRF04_cpx_	KKIDK	CKRIIERAED	SGNDSDGD.T	EEL. STL	WIGHERDING
CRF05_DF_B	KKTMK	TKKIKEKAED	SGNESEGD.A	EELAAT.	GEVGDETDGD
CRF05_DF_B	KKTNK	YKRIRERAED	SGNESEGD.A	EEL AAT.	GEMGDETDOM
CRF06_cpx_	KKIEK	LDRIRERAED	SGNESEGD.T	DEL ATT	MEMCDEDDMA
CRF06_cpx_	KKTEK	LNRIRERAED	SGNESEGD.T	EELAAF	MEMCNEDDIM
CRF06_cpx_	KKIEKL	LDRIRERAED	SGNESEGD T	DELATL	MEMCINEDDIA
CRF06_cpx_	KKIEKL	LDRIREREED	SGNDSEGD T	EELATL	MEMCATED DATE
CRF11_cpx_	KKIDRL	IDRIRERAED	SGNESEGD T	EELARL	MEMODIDOWN
CRF11_cpx_	R	DRLRIRRAED	SCMESECD T	EELAQL	VEMGPHDQWM
D_CD_84ZRO	RKIDWT.	IDRIREREED	SCHECECOVE	ELSTL.	VENGPHDLWN
D CD ELI K	RRIDC	LDRITTEDATE	SCMECECIONS	илоTL.	vemghhapwd
D CD NDK M	RKTDC T	TUDIDEDVED	COMPORTOR	KLSKL.	VEMGHHAPWD
D UG 94UG1	PKIDW 7	TOUTUERABL	COMPOSEGERE	ELSKL.	VEMGHHAPWD
F1 BE VI85	DKINIK +	TOUTUBER	SCHESEGDKE	ELSAL.	VEMGHDAPWD
F1_BE_V185 F1_BR_93BR	DKIMU *	INKIKEKAED	SGNESEGD.A	EELAAL	GEMGPFIPGD
F1_BK_93BK F1_FI_FIN9	WWTMKT	INKISERAED	SGNESEGD.A	EELAAL	GEVGPFIPGD
	WUTNK	ITKIKERAED	SGNESEGD.A	EELAAL	GKMGPFIPGD
F1_FR_MP41	WUTINK	IEKIKERAED	SGNESEGD.A	EELAAL	GEMGSFISGD

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F2_CM_MP25 KRINR....L YERIIERAED SGNESEGD.A EEL....AAL GEVGPLIPGD
 F2KU_BE_VI ERINQ....L YNRLIERAED SGNESEGE.A EEL....AAL GEVGHLVLGN
 G_BE_DRCBL KRIEK....L LDRIRERAED SGNESEGD.T BEL....ATL MELGDFDPWV
G_NG_92NG0 KKIEK....L LDRIRERAED SGNESEGD.T EEL....ATL MEMGDFDPWV
G_SE_SE616 KRIGK....L LDRIRERAED SGNESDGD.T EEL....VTL VEMGDFDPWV
H_BE_VI991 RKIDR....L IERIRERAED SGNESDGD.T EEL....SKL VEMGHLNLGY
H_BE_VI997 KKIDR....L IQRIIEGAED SGNESD.... EEL....STM VERGHLTFGY
H_CF_90CF0 KKIDR....L IERIGERAED SGNESDGD.T EEL....SKL MEMGHLNLGY
J_SE_SE702 RKIDK....L INRIRERAED SGNESDGD.T DEL....AEL VEMGPHDLWN
J_SE_SE788 RKIDK....L IDRIRERAED SGNESDGD.T EEL....ADL VERGPHDLWN
K_CD_EQTB1 KRINW....L FDRIRERAED SGNESEGD.T EEL....AAL GETGHLILGD
K_CM_MP535 KRINW....L IDRIRERAED SGNESEGD.A EEL....ADI GELGHLILGN
N_CM_YBF30 EKIKH....I RQRIREREED SGNESDGD.A EWLDGDEEWL VTLLSSSKLD
O_CM_ANT70 DRKEREILER LRRIREIRDD SDYESNGE.. EEQ....EV MDLVLSHGFD
O_CM_MVP51 DRREQEILER LRRIKEIRDD SDYESNEE.. EQQ....EV MELIHSHGFA
O_SN_99SE_ DKREREILER LRRIRQIEDD SDYESDGT.. EEQ....EV RDLVHSYGFD
O_SN_99SE_ DRREREILER LRRIRQIEDD SDYESDGK.. EEQ....EV RDLVHGYGFD
U_CD__83C RKIDW....L IDRIRERAED SGNESEGD.T EEL....STL VEMEPDNFRN
            101
00BW0762 1 ANGL..
00BW0768 2 GNDL..
00BW0874 2 VNDL..
00BW1471_2 VNDL..
00BW1616 2 DL....
00BW1686 8 VNVL..
00BW1759_3 DNNL..
00BW1773 2 INH...
00BW1783 5 AHDL..
00BW1795 6 ANNL..
00BW1811 3 IINY..
00BW1859 5 INDL..
00BW1880 2 ANDL..
00BW1921 1 HGL...
00BW2036 1 VHDL..
00BW2063 6 ANDL..
00BW2087 2 VNDL..
00BW2127_2 DL....
00BW2276_7 GNDL..
00BW3819_3 AHDL..
00BW3842_8 L....
00BW3871_3 VNDI..
00BW3876_9 INNL..
00BW3886_8 VNNL..
00BW3891_6 VNDV..
00BW3970_2 VTDL..
00BW5031 1 VNDL..
 96BW01B21 DNAL..
  96BW0407 DI....
96BW0502 VNN...
96BW06_J4 NL...
96BW11_06 ANDL..
96BW1210 ADGL..
96BW15B03 L....
 96BW16_26 INN...
 96BW17A09 VNDL..
96BWMO1_5 TNDL..
 96BWMO3_2 INL...
98BWMC12_2 DNEL..
98BWMC13_4 VNDL..
98BWMC14_a VM....
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98BWM014 1
             ANDL..
  98BWM018 d
             ANDL..
  98BWMO36_a AHDL..
  98BWM037 d
             ANDL..
  99BW3932_1
             . . . . . .
  99BW4642_4
             VNDL..
 99BW4745_8 DL....
 99BW4754_7 VNDL..
 99BWMC16_8 ANDL..
 A2_CD_97CD DNDV..
 A2_CY_94CY
            VNNV..
 A2D___97KR AND...
 A2G_CD_97C GDNL..
 A_BY_97BL0
            DNNV..
 A_KE_Q23 A NNIL..
 A_SE_SE659
             DNNL..
 A_SE_SE725 DNDL..
 A_SE_SE753 GNNL..
 A_SE_SE853 DNNL..
 A_SE_SE889 NNNL..
 A_SE_UGSE8 DNNL..
 A_UG_92UG0
             DNNL..
 A_UG_U455
             DNNL..
 AC_IN_2130
             VNGL..
 AC_RW_92RW VNNL..
 AC_SE_SE94 VNNL..
 ACD_SE_SE8 DINL..
 ACG BE VI1
            AIDL..
 AD_SE_SE69 VDDM..
 AD SE SE71 DNNL..
 ADHK NO 97
            VADL..
 ADK_CD MAL VDDL..
AG BE VI11 GDNL..
AG NG 92NG GDNL..
AGHU GA VI
            VNDL..
AGU_CD Z32
            GDNL..
AJ_BW BW21
            VNDL..
B_AU_VH_AF
            VDDL..
B_CN_RL42_
            VDDL..
B_DE_D31_U
            VDDL..
B_DE_HAN_U
            VNDQ..
B_FR_HXB2
            VDDL..
B_GA_OYI_M
            VDDM..
B_GB_CAM1_
            VNDL..
B GB GB8_A
            VDDL..
B_GB_MANC
            VDDL..
B KR WK AF
            VDDL..
B_NL 3202A
            VDDL..
B_TW_TWCYS
            VNDQ..
B US BC LO
            IDDL..
B_US_DH123
            IDDL..
B_US_JRCSF
            INDL..
B_US_MNCG_
            INDL..
B_US_P896
            VDDL..
B_US_RF M1
            VDDL..
B_US_SF2_K
            VDDL..
B_US_WEAU1
           IDDL..
B_US_WR27
            VDDL..
B_US_YU2_M
           VDDL..
BF1_BR_93B
           IDNL..
C_BR_92BR0
           GNDL..
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C_BW_96BW0 DN....
C_BW_96BW1 ANDL..
C_BW_96BW1 ADGL..
C_BW_96BW1 L....
C_ET_ETH22 VNDL..
C IN 93IN1 VNDL..
C IN 93IN9 VNDL..
C IN 93 IN9 VNDM..
C_IN_94IN1 VNDL..
C IN 95IN2
            VNDL..
CRF01 AE C
            GDNL..
CRF01 AE C
            GDNL..
CRF01 AE C
            GDNV..
CRF01 AE T
            GDNL..
CRF01 AE T
            GDNL..
CRF01_AE_T
            GDNV..
CRF01_AE_T
            GDNL..
CRF01_AE_T
            GDNL..
CRF01_AE_T
            GDNL..
CRF02_AG_F
            DNDNL.
CRF02_AG_F
            DNDNL.
CRF02_AG_G
            DNL...
CRF02_AG_N
           DNDNL.
CRF02_AG_S
           DNDNL.
CRF02_AG_S DIDNL.
CRF03_AB_R ADDL..
CRF03_AB_R ADDL..
CRF04_cpx_ GDNL..
CRF04_cpx_ GNNV..
CRF04_cpx_
            GNNL..
CRF05_DF_B
            INNL..
CRF05_DF_B INNL..
CRF06_cpx_ GDNL..
CRF06_cpx_ GDNL..
            GDNL..
CRF06_cpx_
CRF06_cpx_ GDNL..
CRF11_cpx_ VNDL..
CRF11_cpx_
           VNDL..
D_CD_84ZRO VDDDL.
D_CD_ELI_K IDDL..
D CD NDK M VDDL..
D UG 94UG1 ADDM..
FI BE VI85 INNL..
F1 BR 93BR INNL..
F1 FI FIN9 VNNL..
F1 FR MP41 INNL..
F2_CM_MP25 INNL..
F2KU BE VI IHNL..
G BE DRCBL GDNL ..
G NG 92NG0 GNNL..
G SE SE616 GDNL..
H BE VI991 VADL..
H_BE_VI997 VADL..
H CF 90CF0 VADL..
J SE SE702 VNDL..
J_SE_SE788 VNDL..
K CD EQTB1
           INNL..
K CM MP535
           IDNL..
N CM YBF30 QGNWV.
O CM ANT70 NPMFEP
O CM MVP51 NPMFEL
```

O_SN_99SE_ NPMFEL O_SN_99SE_ NPMFEP U_CD__83C DNDM..

Table 20. BLASTP Sequences producing significant alignments with S20757 (HBV Polymerase subtype ayw)

	Score (bits)	E: Value
attornoon at the same at the same at	-	
gi 93080 pir  S20757 DNA-directed DNA polymerase (EC 2.7.7.	1553	0.0
gi 8925755 gb AAF81607.1  DNA polymerase/reverse transcript	1489	0.0
gi 1514497 emb CAA68864.1  P [Hepatitis B virus] gi 27466573 gb AAO12632.1  polymerase [Hepatitis B virus]	1488	0.0
	1482	0.0
	1482	0.0
		0.0
gi 27466565 gb AAO12625.1  polymerase [Hepatitis B virus] gi 67003 pir  JDVLVB DNA-directed DNA polymerase (EC 2.7.7.	1481	0.0
gi 59433 emb CAA46352.1 polymerase ORF [Hepatitis B virus]		0.0
gi   6692498   gb   AAF24666.1   polymerase [Hepatitis B virus]	1480	0.0
gi 6692505 gb AAF24673.1 polymerase [Hepatitis B virus]	1479 1479	0.0
gi 2117935 pir   S71785 DNA-directed DNA polymerase (EC 2.7.	1477	0.0
gi 28436101 dbj BAC57445.1 polymerase [Hepatitis B virus]	1476	0.0
gi 631984 pir   S47406 DNA-directed DNA polymerase (EC 2.7.7	1475	0.0
gi 1359687 emb CAA66431.1  polymerase [Hepatitis B virus]	1474	0.0
gi 18621117 emb CAC87021.1  polymerase [Hepatitis B virus]	1474	0.0
gi 28436091 dbj BAC57437.1  polymerase [Hepatitis B virus]	1473	0.0
gi 6692512 gb AAF24680.1  polymerase [Hepatitis B virus]	1472	0.0
gi 22135695 gb AAM09037.1 polymerase [Hepatitis B virus]	1471	0.0
gi 18621125 emb CAC87015.1 polymerase [Hepatitis B virus]	1471	0.0
gi   1359679 emb   CAA66424.1   polymerase [Hepatitis B virus]	1470	0.0
gi 6692492 gb AAF24660.1 polymerase [Hepatitis B virus]	1468	0.0
gi 2182121 gb AAB59972.1  DNA polymerase [Hepatitis B virus	] 1467	0.0
gi 4140295 emb CAA10539.1  polymerase [Hepatitis B virus]	1467	0.0
gi 28436096 dbj BAC57441.1  polymerase [Hepatitis B virus] gi 2829156 gb AAC40810.1  polymerase [Hepatitis B virus]	1466	0.0
	1464	0.0
gi 27466519 gb AAO12604.1  polymerase [Hepatitis B virus] > gi 118869 sp P24024 DPOL_HPBVA P protein [Includes: DNA-dir	1463	0.0
gi 27466525 gb AAO12672.1 polymerase [Hepatitis B virus]		0.0
gi 762933 emb CAA59514.1 polymerase [Hepatitis B virus]	1461	0.0
gi 22135690   gb   AAM09033.1   polymerase [Hepatitis B virus]	1461 1459	0.0
gi 6063470 dbj BAA85377.1 DNA polymerase/reverse transcrip	1455	0.0
gi 6063465 dbj BAA85373.1 DNA polymerase/reverse transcrip	1454	0.0
gi 27466605 gb AAO12660.1  polymerase [Hepatitis B virus]	1451	0.0
gi 2829149 gb AAC40804.1  polymerase [Hepatitis B virus]	1451	0.0
gi 475987 gb AAA18583.1  polymerase [Hepatitis B virus]	1450	0.0
gi 313784 emb CAA42466.1  polymerase [Hepatitis B virus]	1446	0.0
gi 27466597 gb AAO12653.1 polymerase [Hepatitis B virus]	1444	0.0
gi 15419833 gb AAK97182.1 AF297620_3 polymerase [Hepatitis	1442	0.0
gi   93082   pir     S20752 DNA-directed DNA polymerase (EC 2.7.7.	1441	0.0
gi 27466613 gb AAO12667.1  polymerase [Hepatitis B virus] gi 27466589 gb AAO12646.1  polymerase [Hepatitis B virus]	1435	0.0
· · · · · · · · · · · · · · · · · · ·	1434	0.0
, ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	1432	0.0
gi 27466581 gb AAO12639.1 polymerase [Hepatitis B virus] gi 15419828 gb AAK97178.1 AF297619_3 polymerase [Hepatitis B	1431	0.0
gi 27466544 gb AAO12681.1 polymerase [Hepatitis B virus]		0.0
gi 27466557 gb AAO12692.1 polymerase [Hepatitis B virus]	1427	0.0
gi 16751312 gb AAL25951.1 polymerase protein [Hepatitis B	1423 1382	0.0
gi 11935073 gb AAG41955.1 AF305327_2 polymerase [Hepatitis	1302	0.0
gi 13491150 gb AAK27856.1 AF330110_3 polymerase [Hepatitis	1379 1368	0.0 0.0
91 6116700 db] BAA32859.2 pol protein [Hepatitis B virus]	1368	0.0
gi 3551332 dbj BAA32886.1 pol protein [Hepatitis B virus]	1368	0.0
gi 28812222 dbj BAC65108.1 polymerase protein [Hepatitis B	1368	0.0
gi   6691505   dbj   BAA89330.1   polymerase protein [Hepatitis B	1368	0.0
gi 118872 sp P12900 DPOL_HPBVL P protein [Includes: DNA-dir.	1368	0.0
gi 560084 dbj BAA04927.1  DNA polymerase [Hepatitis B virus]	1367	0.0

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gi|560089|dbj|BAA04931.1| DNA polymerase [Hepatitis B virus]
                                                                    1367
                                                                           0.0
 gi|6116731|dbj|BAA32957.2| pol protein [Hepatitis B virus]
                                                                    1366
                                                                           0.0
gi|6691495|dbj|BAA89322.1| polymerase protein [Hepatitis B ...
                                                                    1365
gi|7188655|gb|AAF37833.1|AF222323_2 polymerase [Hepatitis B...
                                                                           0.0
                                                                    1365
                                                                           0.0
gi|6063460|dbj|BAA85369.1| DNA polymerase/reverse transcrip...
                                                                    1364
gi|3551347|dbj|BAA32898.1| pol protein [Hepatitis B virus]
                                                                           0.0
                                                                    1364
gi|6691500|dbj|BAA89326.1| polymerase protein [Hepatitis B ...
                                                                           0.0
                                                                    1363
gi|28812217|dbj|BAC65104.1| polymerase protein [Hepatitis B...
                                                                           0.0
                                                                    1363
gi|3551342|dbj|BAA32894.1| pol protein [Hepatitis B virus]
                                                                           0.0
                                                                    1363
                                                                           0.0
gi|628080|pir||S43491 DNA-directed DNA polymerase (EC 2.7.7...
                                                                    1363
                                                                           0.0
gi|12246972|gb|AAG49670.1|AF223956_3 polymerase [Hepatitis ...
gi|3551293|dbj|BAA32852.1| pol protein [Hepatitis B virus]
                                                                    1362
                                                                           0.0
                                                                    1362
                                                                           0.0
gi|12246964|gb|AAG49663.1|AF223955_3 polymerase [Hepatitis ...
                                                                    1362
gi|21624231|dbj|BAC01103.1| polymerase protein [Hepatitis B...
                                                                           0.0
                                                                    1362
gi|118874|sp|P03157|DPOL_HPBVR P protein [Includes: DNA-dir...
                                                                           0.0
gi|6009784|dbj|BAA85065.1| polymerase [Hepatitis B virus]
                                                                    1361
                                                                           0.0
                                                                    1361
gi|22651880|gb|AAN03491.1|AF286594_3 DNA polymerase [Hepati...
                                                                           0.0
gi|18252591|gb|AAL66348.1|AF461043_2 P protein [Hepatitis B...
                                                                    1360
                                                                           0.0
gi|15778326|gb|AAL07381.1|AF411409_4 polymerase [Hepatitis ...
                                                                    1360
                                                                           0.0
gi|3551268|dbj|BAA32832.1| pol protein [Hepatitis B virus]
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gi|14290241|gb|AAK59316.1|AF384371_2 polymerase [Hepatitis ...
                                                                           0.0
gi|6063435|dbj|BAA85353.1| DNA polymerase/reverse transcrip...
                                                                           0.0
                                                                           0.0
gi|6063440|dbj|BAA85357.1|
                             DNA polymerase/reverse transcrip...
                                                                           0.0
gi|3551283|dbj|BAA32844.1|
                             pol protein [Hepatitis B virus]
                                                                   1358
                                                                           0.0
gi|18252536|gb|AAL66307.1|AF458664_3 polymerase [Hepatitis ...
                                                                   1358
                                                                           0.0
gi|6009769|dbj|BAA85053.1| polymerase [Hepatitis B virus]
                                                                   1358
gi|13991865|gb|AAK51533.1|AF363961_2 polymerase [Hepatitis ...
                                                                           0.0
                                                                   1357
                                                                           0.0
gi | 6063425 | dbj | BAA85382.1 |
                             DNA polymerase/reverse transcrip...
                                                                   1357
                                                                           0.0
gi 2626986 dbj BAA23435.1
                             DNA polymerase [Hepatitis B viru...
                                                                   1357
                                                                           0.0
gi | 4490402 | emb | CAB38767.1 |
                             P protein [Hepatitis B virus]
                                                                   1357
                                                                           0.0
gi | 22415735 | gb | AAM95242.1 |
                             DNA polymerase/reverse transcrip...
gi|10934057|dbj|BAB16885.1| polymerase [Hepatitis B virus]
                                                                   1357
                                                                           0.0
                                                                   1356
gi|18252556|gb|AAL66323.1|AF461359_3 polymerase [Hepatitis ...
                                                                           0.0
gi|2627009|dbj|BAA23455.1| DNA polymerase [Hepatitis B virus]
                                                                   1356
                                                                           0.0
gi|560074|dbj|BAA04919.1| DNA polymerase [Hepatitis B virus]
                                                                   1356
                                                                           0.0
gi|479847|pir||S35527 DNA-directed DNA polymerase (EC 2.7.7...
                                                                   1356
                                                                           0.0
gi|18252545|gb|AAL66314.1|AF461357_2 polymerase [Hepatitis ...
                                                                   1356
                                                                           0.0
                                                                   1356
                                                                           0.0
gi|1742906|dbj|BAA09083.1|
                             DNA polymerase [Hepatitis B virus]
                                                                   1355
                                                                           0.0
gi | 6009764 | dbj | BAA85049.1 |
                             polymerase [Hepatitis B virus] >...
                                                                   1355
                                                                           0.0
gi 2627002 dbj BAA23449.1
                             DNA polymerase [Hepatitis B virus]
                                                                   1355
                                                                           0.0
gi | 6063455 | dbj | BAA85365.1 |
                             DNA polymerase/reverse transcrip...
gi|10441115|gb|AAG16953.1|AF182804_4 polymerase [Hepatitis ...
                                                                   1355
                                                                           0.0
                                                                   1354
                                                                           0.0
gi | 6009774 | dbj | BAA85057.1 |
                             polymerase [Hepatitis B virus]
                                                                   1353
gi |4490407 | emb | CAB38771.1 |
                                                                           0.0
                             P protein [Hepatitis B virus]
                                                                   1353
                                                                           0.0
gi | 3582359 | dbj | BAA32913.1
                             pol protein [Hepatitis B virus]
                                                                   1353
                                                                           0.0
gi | 3582355 | dbj | BAA32874.1 |
                             pol protein [Hepatitis B virus]
gi | 12246980 | gb | AAG49677.1 | AF223957_3 polymerase [Hepatitis ...
                                                                   1353
                                                                           0.0
                                                                   1352
                                                                          0.0
gi | 16751307 | gb | AAL25947.1 |
                             polymerase protein [Hepatitis B ...
                                                                   1352
                                                                          0.0
gi 3582375 dbj BAA32925.1
                            pol protein [Hepatitis B virus]
gi|15778340|gb|AAL07392.1|AF411412_4 polymerase [Hepatitis ...
                                                                   1352
                                                                          0.0
                                                                   1352
                                                                          0.0
gi|4206637|gb|AAD11755.1| DNA polymerase [Hepatitis B virus]
gi|15425690|dbj|BAB64319.1| polymerase [Hepatitis B virus]
                                                                   1352
                                                                          0.0
gi 3551352 dbj BAA32902.1 pol protein [Hepatitis B virus]
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                                                                          0.0
                                                                   1352
gi|3582395|dbj|BAA32963.1| pol protein [Hepatitis B virus]
                                                                          0.0
gi|5114071|gb|AAD40205.1|AF090839_2 polymerase [Hepatitis B...
                                                                   1352
                                                                          0.0
                                                                   1352
gi|9082085|gb|AAF82723.1|AF233236_2 pol [Hepatitis B virus]
                                                                          0.0
                                                                   1352
gi|6983935|gb|AAF34734.1|AF160501_2 polymerase [Hepatitis B...
                                                                          0.0
                                                                   1351
gi|560094|dbj|BAA04935.1| DNA polymerase [Hepatitis B virus]
                                                                          0.0
gi|18032033|gb|AAL49990.1| polymerase [Hepatitis B virus]
                                                                   1351
                                                                          0.0
                                                                   1351
gi|18146671|dbj|BAB82392.1| polymerase [Hepatitis B virus]
                                                                          0.0
                                                                   1351
gi|6006322|dbj|BAA84819.1| polymerase protein [Hepatitis B ...
                                                                          0.0
                                                                   1350
                                                                          0.0
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gi|18252551|gb|AAL66319.1|AF461358_3 polymerase [Hepatitis ...
                                                                           1350
                                                                                   0.0
gi|7188649|gb|AAF37828.1|AF222322_2 polymerase [Hepatitis B...
                                                                                   0.0
gi|12060441|dbj|BAB20611.1| DNA polymerase [Hepatitis B virus]
                                                                                   0.0
gi|18845085|gb|AAL79545.1|AF473543_4 P protein [Hepatitis B...
                                                                                   0.0
gi|3551322|dbj|BAA32878.1| pol protein [Hepatitis B virus]
gi|12246956|gb|AAG49656.1|AF223954_4 polymerase [Hepatitis ...
                                                                                   0.0
gi | 6063430 | dbj | BAA85349.1 | DNA polymerase/reverse transcrip... 1350 gi | 2288872 | dbj | BAA21665.1 | DNA polymerase [Hepatitis B virus] 1350 gi | 1220111 | dbj | BAA04072.1 | DNA polymerase [Hepatitis B virus] 1349
                                                                                   0.0
                                                                                   0.0
                                                                                   0.0
                                                                                   0.0
gi | 9454168 | gb | AAF87689.1 | polymerase protein [Hepatitis B v... 1349 gi | 18146683 | dbj | BAB82402.1 | polymerase [Hepatitis B virus] 1349
                                                                                   0.0
                                                                                   0.0
gi|3551278|dbj|BAA32840.1| pol protein [Hepatitis B virus] gi|3551372|dbj|BAA32939.1| pol protein [Hepatitis B virus]
                                                                           1349
                                                                                   0.0
                                                                           1349
                                                                                   0.0
gi|19849035|gb|AAL99437.1|AF405706_3 polymerase [Hepatitis ...
                                                                           1349
                                                                                   0.0
gi|3551357|dbj|BAA32906.1| pol protein [Hepatitis B virus]
                                                                           1349
                                                                                   0.0
gi|15778321|gb|AAL07377.1|AF411408_4 polymerase [Hepatitis ...
                                                                          1348
                                                                                   0.0
gi|15072542|gb|AAK81690.1| polymerase protein [Hepatitis B ... gi|21624238|dbj|BAC01109.1| polymerase protein [Hepatitis B...
                                                                           1348
                                                                                   0.0
                                                                           1348
gi|12247012|gb|AAG49705.1|AF223961_3 polymerase [Hepatitis ...
                                                                                   0.0
                                                                           1348
                                                                                   0.0
gi | 5114086 | gb | AAD40217.1 | AF090842_2 polymerase [Hepatitis B...
                                                                           1348
                                                                                   0.0
gi 3582407 dbj BAA32972.1 pol protein [Hepatitis B virus]
                                                                           1347
                                                                                   0.0
gi|15425698|dbj|BAB64325.1| polymerase [Hepatitis B virus]
gi | 18146665 | dbj | BAB82387.1 | polymerase [Hepatitis B virus] gi | 23194252 | gb | AAN15074.1 | P protein [Hepatitis B virus]
                                                                           1347
                                                                                   0.0
                                                                           1347
                                                                                   0.0
                                                                           1347
                                                                                   0.0
gi|560079|dbj|BAA04923.1| DNA polymerase [Hepatitis B virus]
                                                                           1347
                                                                                   0.0
gi|10443833|gb|AAG17595.1|AF241410_3 polymerase [Hepatitis ...
                                                                           1346
                                                                                   0.0
gi|13991870|gb|AAK51537.1|AF363962_2 polymerase [Hepatitis ...
                                                                           1346
                                                                                   0.0
gi 4007054 emb CAA10426.1 DNA polymerase [Hepatitis B virus]
                                                                           1346
                                                                                   0.0
gi|3551362|dbj|BAA32910.1| pol protein [Hepatitis B virus]
gi|18146677|dbj|BAB82397.1| polymerase [Hepatitis B virus]
                                                                           1346
                                                                                   0.0
                                                                           1346
gi | 12246988 | gb | AAG49684.1 | AF223958_3 polymerase [Hepatitis ...
                                                                                   0.0
                                                                           1346
                                                                                   0.0
gi|15211897|emb|CAC51286.1| polymerase [Hepatitis B virus]
                                                                           1345
                                                                                   0.0
gi|18389989|gb|AAL68823.1| polymerase [Hepatitis B virus]
                                                                           1345
                                                                                   0.0
gi|3582363|dbj|BAA32916.1| pol protein [Hepatitis B virus]
                                                                           1345
                                                                                   0.0
gi|10441110|gb|AAG16949.1|AF182803_4 polymerase [Hepatitis ...
                                                                           1345
                                                                                   0.0
gi | 10443841 | gb | AAG17602.1 | AF241411 3 polymerase [Hepatitis ...
                                                                           1345
                                                                                   0.0
gi 3551382 dbj BAA32947.1 pol protein [Hepatitis B virus]
                                                                           1345
                                                                                   0.0
gi 3582387 dbj BAA32950.1 pol protein [Hepatitis B virus]
                                                                           1344
                                                                                   0.0
gi 3551317 dbj BAA32871.1 pol protein [Hepatitis B virus]
                                                                           1344
                                                                                   0.0
gi|10441104|gb|AAG16944.1|AF182802_3 polymerase [Hepatitis ...
                                                                           1343
                                                                                   0.0
gi|118866|sp|P03159|DPOL_HPBV2 P protein [Includes: DNA-dir...
                                                                           1343
                                                                                   0.0
gi|15425694 dbj BAB64322.1 polymerase [Hepatitis B virus]
                                                                           1343
                                                                                   0.0
gi|4007049|emb|CAA10422.1| DNA polymerase [Hepatitis B virus]
                                                                           1343
                                                                                   0.0
gi|29123239|gb|AA062971.1| pol protein [Hepatitis B virus]
                                                                           1343
                                                                                   0.0
gi|4007064|emb|CAA10438.1| DNA polymerase [Hepatitis B virus]
                                                                           1342
                                                                                   0.0
gi|452623|emb|CAA53358.1| polymerase [Hepatitis B virus]
                                                                           1342
                                                                                   0.0
gi|18252541|gb|AAL66311.1|AF458665_3 polymerase [Hepatitis ...
                                                                           1342
                                                                                   0.0
gi|527443|emb|CAA84791.1| DNA polymerase [Hepatitis B virus]
                                                                           1342
                                                                                   0.0
gi|15211890|emb|CAC51280.1| polymerase [Hepatitis B virus]
                                                                           1342
                                                                                   0.0
gi|329617|gb|AAA62812.1| DNA polymerase
                                                                           1341
                                                                                   0.0
gi|4007079|emb|CAA10454.1| DNA polymerase [Hepatitis B virus]
                                                                           1341
                                                                                   0.0
gi|9454173|gb|AAF87693.1| polymerase protein [Hepatitis B v...
                                                                           1341
                                                                                   0.0
gi|452628|emb|CAA53354.1| polymerase [Hepatitis B virus]
gi|3582367|dbj|BAA32919.1| pol protein [Hepatitis B virus]
                                                                           1341
                                                                                   0.0
                                                                           1340
                                                                                   0.0
gi|5114066|gb|AAD40201.1|AF090838_2 polymerase [Hepatitis B...
gi|15419860|gb|AAK97203.1|AF297625_3 polymerase [Hepatitis ...
                                                                           1340
                                                                                   0.0
                                                                           1340
gi|4490412|emb|CAB38775.1| P protein [Hepatitis B virus]
                                                                                   0.0
gi|18252566|gb|AAL66331.1|AF461361_3 polymerase [Hepatitis ...
                                                                           1340
                                                                                   0.0
                                                                          1340
                                                                                   0.0
gi 4007059 emb CAA10430.1 DNA polymerase [Hepatitis B virus]
                                                                          1340
                                                                                   0.0
gi|5114081|gb|AAD40213.1|AF090841_2 polymerase [Hepatitis B...
                                                                          1339
                                                                                   0.0
gi 3582371 dbj BAA32922.1 pol protein [Hepatitis B virus]
                                                                          1339
                                                                                   0.0
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gi|12247003|gb|AAG49697.1|AF223960_4 polymerase [Hepatitis ...
                                                                    1339
 gi|4033548|emb|CAA10450.1| DNA polymerase [Hepatitis B virus]
                                                                           0.0
 gi|3892581|emb|CAA09962.1| polymerase [Hepatitis B virus]
                                                                           0.0
 gi|5114076|gb|AAD40209.1|AF090840_2 polymerase [Hepatitis B...
                                                                    1339
                                                                           0.0
 gi|12060436|dbj|BAB20607.1| DNA polymerase [Hepatitis B virus]
                                                                   1338
                                                                           0.0
 gi|118868|sp|P17100|DPOL_HPBV9 P protein [Includes: DNA-dir...
                                                                   1338
                                                                           0.0
gi|27466434|gb|AA012555.1| polymerase [Hepatitis B virus]
                                                                   1337
                                                                           0.0
                                                                   1337
                                                                           0.0
 gi|3582399|dbj|BAA32966.1|
                             pol protein [Hepatitis B virus]
                                                                   1337
                                                                           0.0
gi | 3551273 | dbj | BAA32836.1 |
                             pol protein [Hepatitis B virus]
gi|3582391|dbj|BAA32953.1| polymerase [synthetic construct]...
                                                                   1337
                                                                           0.0
                                                                   1337
                                                                           0.0
gi|15419845|gb|AAK97191.1|AF297622_3 polymerase [Hepatitis ...
                                                                   1337
                                                                           0.0
gi|118870|sp|P17393|DPOL_HPBVI P protein [Includes: DNA-dir...
                                                                   1337
                                                                           0.0
gi|3551377|dbj|BAA32943.1| pol protein [Hepatitis B virus]
                                                                   1336
                                                                           0.0
gi | 10443825 | gb | AAG17588.1 | AF241409_3 polymerase [Hepatitis ...
                                                                   1336
                                                                           0.0
gi|10443817|gb|AAG17581.1|AF241408_3 polymerase [Hepatitis ...
                                                                   1336
                                                                           0.0
gi|29124889|gb|AA063519.1| pol protein [Hepatitis B virus]
                                                                   1336
                                                                           0.0
gi 399401 sp P31870 DPOL_HPBVM P protein [Includes: DNA-dir...
                                                                   1335
                                                                           0.0
gi | 6063445 | dbj | BAA85339.1 | DNA polymerase/reverse transcrip...
                                                                   1335
                                                                           0.0
                                                                   1335
                                                                           0.0
gi|19568078|gb|AAL89566.1|
                             polymerase [Hepatitis B virus]
                                                                   1334
                                                                           0.0
gi | 27466426 | gb | AA012548.1 |
                            polymerase [Hepatitis B virus]
                                                                   1334
                                                                           0.0
gi|22655601|gb|AAN04128.1| polymerase [Hepatitis B virus]
gi|8161369|gb|AAA69721.2| polymerase [Hepatitis B virus]
                                                                   1334
                                                                           0.0
gi|10441120|gb|AAG16957.1|AF182805_4 polymerase [Hepatitis ...
                                                                   1334
                                                                          0.0
gi|10443809|gb|AAG17574.1|AF241407_3 polymerase [Hepatitis ...
                                                                   1334
                                                                          0.0
gi|18146689|dbj|BAB82407.1| polymerase [Hepatitis B virus]
                                                                   1333
                                                                          0.0
                                                                   1333
                                                                          0.0
gi|4007069|emb|CAA10442.1|
                             DNA polymerase [Hepatitis B virus]
                                                                   1333
                                                                          0.0
gi|18031709|gb|AAK57744.1|
                            polymerase [Hepatitis B virus]
                                                                   1333
gi|18252561|gb|AAL66327.1|AF461360_3 polymerase [Hepatitis ...
                                                                          0.0
                                                                   1332
gi|6959503|gb|AAF33121.1| polymerase protein [orangutan hep...
                                                                          0.0
                                                                   1332
                                                                          0.0
gi|26224721|gb|AAN76318.1|
                             polymerase [Hepatitis B virus]
                                                                   1332
                                                                          0.0
gi|4007074|emb|CAA10446.1|
                             DNA polymerase [Hepatitis B virus]
                                                                   1332
gi|18031714|gb|AAK57745.1| polymerase [Hepatitis B virus]
                                                                          0.0
                                                                   1332
gi 7434791 pir | S67505 DNA-directed DNA polymerase (EC 2.7....
                                                                          0.0
                                                                   1332
gi|15419855|gb|AAK97199.1|AF297624_3 polymerase [Hepatitis ...
                                                                          0.0
                                                                   1332
gi 7434793 pir | T13468 DNA-directed DNA polymerase (EC 2.7....
                                                                          0.0
gi|4323205|gb|AAD16257.1| polymerase [Hepatitis B virus]
                                                                   1331
                                                                          0.0
gi|12060194|dbj|BAB20451.1| DNA polymerase [Hepatitis B virus]
                                                                   1331
                                                                          0.0
gi|23194347|gb|AAN15122.1| polymerase [Hepatitis B virus]
                                                                   1331
                                                                          0.0
                                                                   1330
                                                                          0.0
gi|20151228|gb|AAM12945.1|
                            DNA polymerase/reverse transcrip...
                                                                   1330
                                                                          0.0
gi 23884547 gb AAN40009.1
                             pol protein [Hepatitis B virus]
gi|21431681|gb|AAM53414.1|U87747_3 DNA polymerase/reverse t...
                                                                   1330
                                                                          0.0
gi|3551337|dbj|BAA32890.1| pol protein [Hepatitis B virus]
                                                                   1330
                                                                          0.0
                                                                   1329
                                                                          0.0
gi|5019933|gb|AAD37919.1|
                            P protein [Hepatitis B virus]
gi|15419840|gb|AAK97187.1|AF297621_3 polymerase [Hepatitis ...
                                                                   1329
                                                                          0.0
                                                                   1329
gi | 6006331 | dbj | BAA84825.1 |
                                                                          0.0
                             polymerase protein [Hepatitis B ...
                                                                   1329
                                                                          0.0
gi|19568073|gb|AAL89569.1|
                            polymerase [Hepatitis B virus]
                                                                   1329
gi|29124918|gb|AA063539.1| pol protein [Hepatitis B virus]
                                                                          0.0
gi|329630|gb|AAA45483.1| P protein [Hepatitis B virus]
                                                                   1328
                                                                          0.0
gi|15778331|gb|AAL07385.1|AF411410_4 polymerase [Hepatitis ...
                                                                   1328
                                                                          0.0
                                                                   1328
                                                                          0.0
gi|6566410|dbj|BAA88275.1|
                            P protein [Hepatitis B virus]
                                                                   1328
                                                                          0.0
gi | 4490397 | emb | CAB38763.1 |
                            P protein [Hepatitis B virus]
                                                                   1328
                                                                          0.0
gi|12060187|dbj|BAB20445.1| DNA polymerase [Hepatitis B virus]
                                                                  1327
                                                                          0.0
gi|6063450|dbj|BAA85343.1|
                            DNA polymerase/reverse transcrip...
                                                                   1327
                                                                          0.0
gi|118877|sp|P03155|DPOL_HPBVZ P protein [Includes: DNA-dir...
                                                                   1327
                                                                          0.0
gi | 29124883 | gb | AA063514.1 |
                            pol protein [Hepatitis B virus]
                                                                   1325
                                                                          0.0
gi|4033543|emb|CAA10434.1|
                            DNA polymerase [Hepatitis B virus]
                                                                  1325
                                                                          0.0
gi|6692525|gb|AAF24693.1|
                           polymerase [Hepatitis B virus]
                                                                  1325
                                                                          0.0
gi|6692559|gb|AAF24727.1|
                           polymerase [Hepatitis B virus]
gi 23194340 gb AAN15116.1 polymerase [Hepatitis B virus]
                                                                  1325
                                                                          0.0
gi|560064|dbj|BAA04911.1| DNA polymerase [Hepatitis B virus]
                                                                  1325
                                                                          0.0
                                                                  1324
                                                                          0.0
```

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gi | 29124898 | gb | AAO63526.1 |
                             pol protein [Hepatitis B virus]
                                                                     1324
                                                                            0.0
gi | 29124927 | gb | AA063545.1 |
                             pol protein [Hepatitis B virus]
                                                                     1323
                                                                            0.0
gi | 6692566 | gb | AAF24734.1 |
                            polymerase [Hepatitis B virus]
                                                                     1323
                                                                            0.0
gi | 6692553 | gb | AAF24721.1 |
                            polymerase [Hepatitis B virus]
                                                                     1323
                                                                            0.0
gi | 6692518 | gb | AAF24686.1 |
                            polymerase [Hepatitis B virus] >g...
                                                                     1323
                                                                            0.0
gi | 1359702 | emb | CAA66444.1 |
                             polymerase [Hepatitis B virus] >...
                                                                    1323
                                                                            0.0
gi | 29124867 | gb | AAO63501.1 |
                             pol protein [Hepatitis B virus]
                                                                            0.0
gi | 29124872 | gb | AAO63505.1 |
                             pol protein [Hepatitis B virus] ... 1323
                                                                            0.0
gi | 27466479 | gb | AAO12576.1 |
                             polymerase [Hepatitis B virus]
                                                                     1322
                                                                            0.0
gi|6692546|gb|AAF24714.1|
                            polymerase [Hepatitis B virus]
                                                                     1322
                                                                            0.0
gi|3551312|dbj|BAA32867.1|
                             pol protein [Hepatitis B virus]
                                                                     1322
                                                                            0.0
gi 27466487 | gb | AAO12611.1 |
                             polymerase [Hepatitis B virus]
                                                                     1322
                                                                            0.0
gi | 118871 | sp | P17394 | DPOL_HPBVJ P protein [Includes: DNA-dir...
                                                                     1321
                                                                            0.0
1321
                                                                            0.0
gi|19224214|gb|AAL86445.1|AF479684_3 P gene product [Hepati... 1321
                                                                            0.0
gi | 6692572 | gb | AAF24740.1 | polymerase [Hepatitis B virus]
                                                                     1321
                                                                            0.0
gi 3551297 dbj BAA32855.1
                             pol protein [Hepatitis B virus]
                                                                     1321
                                                                            0.0
gi | 3551327 | dbj | BAA32882.1 |
                             pol protein [Hepatitis B virus]
                                                                     1320
                                                                            0.0
gi | 1359695 | emb | CAA66434.1 |
                             polymerase [Hepatitis B virus]
                                                                     1320
                                                                            0.0
gi 3551367 dbj BAA32932.1
                             pol protein [Hepatitis B virus]
                                                                     1320
                                                                            0.0
gi|118873|sp|P17395|DPOL_HPBVO P protein [Includes: DNA-dir...
                                                                     1319
                                                                            0.0
gi | 29124862 | gb | AAO63497.1 |
                             pol protein [Hepatitis B virus]
                                                                     1319
                                                                            0.0
gi|18621110|emb|CAC87028.1| polymerase [Hepatitis B virus]
                                                                     1319
                                                                            0.0
gi | 3582403 | dbj | BAA32969.1 |
                             pol protein [Hepatitis B virus]
                                                                     1318
                                                                            0.0
gi | 27261550 | gb | AAN85925.1 |
                             DNA polymerase [Hepatitis B viru...
                                                                     1318
                                                                            0.0
gi | 1914703 | emb | CAA66699.1 |
                             polymerase [Hepatitis B virus]
                                                                     1318
                                                                            0.0
gi | 4323200 | gb | AAD16253.1 |
                            polymerase [Hepatitis B virus]
                                                                    1318
                                                                            0.0
gi | 6573293 | dbj | BAA88291.1 |
                             P protein [Hepatitis B virus]
                                                                     1318
                                                                            0.0
gi | 6006341 | dbj | BAA84833.1 |
                             polymerase protein [Hepatitis B ...
                                                                     1316
                                                                            0.0
gi | 6566440 | dbj | BAA88286.1 |
                             P protein [Hepatitis B virus]
                                                                     1315
                                                                            0.0
gi | 560059 | dbj | BAA04907.1 |
                            DNA polymerase [Hepatitis B virus]
                                                                     1315
                                                                            0.0
gi | 14334410 | gb | AAK59391.1 |
                             polymerase [Hepatitis B virus]
                                                                     1315
                                                                            0.0
gi | 5019954 | gb | AAD37936.1 |
                            P protein [Hepatitis B virus]
                                                                     1315
                                                                            0.0
gi|16117323|dbj|BAB69785.1| polymerase [Hepatitis B virus]
                                                                     1315
                                                                            0.0
gi|7434792|pir||T13473 DNA-directed DNA polymerase (EC 2.7....
                                                                     1315
                                                                            0.0
gi | 5019965 | gb | AAD37945.1 |
                            P protein [Hepatitis B virus]
                                                                     1314
                                                                            0.0
gi|29124908|gb|AA063533.1|
                             pol protein [Hepatitis B virus]
                                                                     1314
                                                                            0.0
gi | 6566428 | dbj | BAA88281.1 |
                             P protein [Hepatitis B virus]
                                                                     1313
                                                                            0.0
gi | 29124894 | gb | AA063523.1 |
                             pol protein [Hepatitis B virus]
                                                                     1311
                                                                            0.0
gi|22135730|gb|AAM09065.1| polymerase [Hepatitis B virus]
                                                                     1311
                                                                            0.0
gi|560069|dbj|BAA04915.1| DNA polymerase [Hepatitis B virus]
                                                                     1311
                                                                            0.0
gi|15419850|gb|AAK97195.1|AF297623_3 polymerase [Hepatitis ...
                                                                     1311
                                                                            0.0
gi | 9634217 | ref | NP 037757.1 |
                              polymerase protein [orangutan h...
                                                                     1310
                                                                            0.0
gi|16117333|dbj|BAB69793.1| polymerase [Hepatitis B virus]
                                                                     1309
                                                                            0.0
gi|9971630|dbi|BAB12582.1|
                             polymerase protein [Hepatitis B ...
                                                                     1308
                                                                            0.0
gi|27466450|gb|AA012569.1| polymerase [Hepatitis B virus]
                                                                     1306
                                                                            0.0
gi|12247036|gb|AAG49726.1|AF223964_3 polymerase [Hepatitis ...
                                                                     1306
                                                                            0.0
gi|12247028|gb|AAG49719.1|AF223963_3 polymerase [Hepatitis ...
                                                                     1305
                                                                            0.0
gi|5019945|gb|AAD37929.1| P protein [Hepatitis B virus]
                                                                            0.0
                                                                     1305
gi|18146701|dbj|BAB82417.1| polymerase [Hepatitis B virus]
                                                                     1305
                                                                            0.0
gi|12247020|gb|AAG49712.1|AF223962_3 polymerase [Hepatitis ...
                                                                     1304
                                                                            0.0
gi|5019981|gb|AAD37958.1| P protein [Hepatitis B virus]
                                                                     1304
                                                                            0.0
gi | 3892582 | emb | CAA53343.1 |
                             polymerase [Hepatitis B virus]
                                                                     1304
                                                                            0.0-
gi | 27466442 | gb | AAO12562.1 |
                             polymerase [Hepatitis B virus]
                                                                     1304
                                                                            0.0
gi | 22135715 | gb | AAM09053.1 |
                             polymerase [Hepatitis B virus]
                                                                     1301
                                                                            0.0
gi | 12247044 | gb | AAG49733.1 | AF223965_3 polymerase [Hepatitis ...
                                                                     1301
                                                                            0.0
gi 22135725 gb AAM09061.1
                             polymerase [Hepatitis B virus]
                                                                     1301
                                                                            0.0
gi|11191880|dbj|BAB17962.1| polymerase [Hepatitis B virus]
                                                                     1300
                                                                            0.0
gi|3551392|dbj|BAA32961.1|
                             pol protein [Hepatitis B virus]
                                                                     1300
                                                                            0.0
gi | 6006336 | dbj | BAA84829.1 |
                             polymerase protein [Hepatitis B ...
                                                                     1299
                                                                            0.0
gi | 2627021 | dbj | BAA23467.1 |
                             DNA polymerase [Hepatitis B virus]
                                                                     1298
                                                                            0.0
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gi|2627015|dbj|BAA23461.1| DNA polymerase [Hepatitis B virus]
 gi|16117328|dbj|BAB69789.1| polymerase [Hepatitis B virus]
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                                                                                0.0
                                                                        1297
 gi|22135735|gb|AAM09069.1| polymerase [Hepatitis B virus]
                                                                                0.0
 gi|14485226|gb|AAK62976.1|AF384372_2 polymerase [Hepatitis ...
                                                                        1297
                                                                                0.0
 gi|3551288|dbj|BAA32848.1| pol protein [Hepatitis B virus]
                                                                        1296
                                                                                0.0
                                                                        1295
                                                                                0.0
 qi|11191960|dbj|BAB18032.1|
                                polymerase [Hepatitis B virus]
                                                                        1294
                                                                                0.0
 gi | 11191888 | dbj | BAB17969.1 |
                                 polymerase [Hepatitis B virus] ...
                                                                        1293
                                                                                0.0
 gi|11191840|dbj|BAB17927.1|
                                 polymerase [Hepatitis B virus] ...
                                                                        1293
 gi | 11191920 | dbj | BAB17997.1 |
                                                                                0.0
                                 polymerase [Hepatitis B virus]
                                                                        1293
                                                                                0.0
 gi | 11191904 | dbj | BAB17983.1 |
                                 polymerase [Hepatitis B virus]
                                                                        1291
                                                                                0.0
 gi | 11191952 | dbj | BAB18025.1 |
                                 polymerase [Hepatitis B virus]
 gi|1169410|sp|Q05486|DPOL_HPBVT P protein [Includes: DNA-di...
                                                                        1291
                                                                                0.0
                                                                        1289
 gi|22135705|gb|AAM09045.1| polymerase [Hepatitis B virus]
                                                                                0.0
                                                                        1288
                                                                                0.0
 gi|452633|emb|CAA53350.1|
                              polymerase [Hepatitis B virus]
                                                                        1288
                                                                                0.0
 gi|18146695|dbj|BAB82412.1|
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                                                                        1287
                                                                                0.0
 gi|22135710|gb|AAM09049.1|
                               polymerase [Hepatitis B virus]
                                                                        1287
                                                                                0.0
 gi|11191864|dbj|BAB17948.1|
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                                                                        1286
 gi|59451|emb|CAA48354.1| HBV polymerase [Hepatitis B virus]
                                                                                0.0
                                                                        1286
                                                                                0.0
 gi|11191848|dbj|BAB17934.1|
                               polymerase [Hepatitis B virus] ...
                                                                        1286
                                                                                0.0
 gi|22135700|gb|AAM09041.1|
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                                                                        1285
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 gi|5019976|gb|AAD37954.1|
                              P protein [Hepatitis B virus]
                                                                        1281
                                                                                0.0
 gi|22135720|gb|AAM09057.1|
                               polymerase [Hepatitis B virus]
                                                                        1279
                                                                                0.0
 gi|5019939|gb|AAD37924.1|
                              P protein [Hepatitis B virus]
                                                                        1276
                                                                                0.0
 gi|1914697|emb|CAA66674.1|
                               polymerase [Hepatitis B virus]
                                                                        1273
                                                                                0.0
 gi | 1914691 | emb | CAA66679.1 |
                               polymerase [Hepatitis B virus]
                                                                        1271
                                                                               0.0
gi|5019970|gb|AAD37949.1|
                              P protein [Hepatitis B virus]
                                                                        1263
gi|15425702|dbj|BAB64328.1| polymerase [Hepatitis B virus]
                                                                               0.0
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                                                                               0.0
 gi | 29124905 | gb | AA063531.1 |
                               pol protein [Hepatitis B virus]
                                                                        1253
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 gi | 27466464 | gb | AAO12704.1 |
                               polymerase [Hepatitis B virus]
                                                                        1248
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 gi|27466471|gb|AA012710.1|
                               polymerase [Hepatitis B virus]
 gi|18252571|gb|AAL66335.1|AF461362_3 polymerase [Hepatitis ...
                                                                        1244
                                                                               0.0
                                                                       1243
                                                                               0.0
 gi|27466511|gb|AA012597.1|
                               polymerase [Hepatitis B virus]
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 gi|27466457|gb|AA012698.1|
                               polymerase [Hepatitis B virus]
                                                                       1238
gi | 15211905 | emb | CAC51293.1 | polymerase [Hepatitis B virus]
                                                                               0.0
gi|399402|sp|Q02314|DPOL_HPBVP P protein [Includes: DNA-dir...
                                                                       1227
                                                                               0.0
                                                                       1224
                                                                               0.0
gi | 1914708 | emb | CAA66684.1 |
                               polymerase [Hepatitis B virus]
                                                                       1220
                                                                               0.0
gi|27466503|gb|AA012583.1|
                               polymerase [Hepatitis B virus]
gi|118867|sp|P12933|DPOL_HPBV4 P protein [Includes: DNA-dir...
                                                                       1184
                                                                               0.0
                                                                      1157
                                                                               0.0
gi | 4468850 | emb | CAB38229.1 |
                               polymerase [Hepatitis B virus]
                                                                       1122
                                                                               0.0
gi | 1914719 | emb | CAA66694.1 |
                               polymerase [Hepatitis B virus]
                                                                       1101
                                                                               0.0
gi|9630375|ref|NP_046799.1|
                               polymerase [woolly monkey hepat...
                                                                               0.0
gi | 1185115 | emb | CAA51254.1 |
                               DNA polymerase [Hepatitis B virus]
gi|20800461|gb|AAM28642.1|U87746_4 DNA polymerase/reverse t...
                                                                               0.0
gi 21326585 ref NP_647604.1 P gene product (AA 304-843); c...
                                                                               0.0
                                                                         907
                                                                               0.0
gi | 4377612 | emb | CAA53339.1 |
                               polymerase [Hepatitis B virus]
                                                                         904
                                                                               0.0
gi | 4377613 | emb | CAA53338.1 |
                               polymerase [Hepatitis B virus]
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                                                                               0.0
gi | 1549226 | dbj | BAA04073.1 |
                               ORF [Hepatitis B virus]
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                                                                         898
gi|9454414|gb|AAF87797.1| polymerase [Hepatitis B virus]
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                                                                               0.0
gi | 1550614 | dbj | BAA04075.1 |
                               ORF [Hepatitis B virus]
                                                                        893
gi|59409|emb|CAA32399.1| DNA polymerase [Hepatitis B virus]
                                                                               0.0
gi|118894|sp|P03160|DPOL_WHV1 P protein [Includes: DNA-dire...
                                                                        879
                                                                               0.0
gi|9626716|ref|NP_040994.1| A protein [Ground squirrel hepa...
                                                                        727
                                                                               0.0
gi|22256032|ref|NP_671813.1| DNA polymerase [Woodchuck hepa...
                                                                        727
                                                                               0.0
gi | 15637595 | gb | AAL04547.1 | AF410859 1 polymerase [Woodchuck ... gi | 15637587 | gb | AAL04543.1 | AF410855 1 type II mutant polymer...
                                                                        725
                                                                               0.0
                                                                        725
                                                                               0.0
gi|118895|sp|P12899|DPOL_WHV59 P protein [Includes: DNA-dir...
                                                                        725
                                                                               0.0
gi | 15637597 | gb | AAL04548.1 | AF410860_1 polymerase [Woodchuck ...
                                                                        724
                                                                               0.0
gi | 15637599 | gb | AAL04549.1 | AF410861_1 | polymerase [Woodchuck ... gi | 15637593 | gb | AAL04546.1 | AF410858_1 | defective polymerase [...
                                                                        724
                                                                               0.0
                                                                        722
                                                                               0.0
gi|118898|sp|P17396|DPOL_WHV8I P protein [Includes: DNA-dir...
                                                                        721
                                                                               0.0
                                                                        721
gi|15637591|gb|AAL04545.1|AF410857_1 type I mutant polymera...
                                                                               0.0
                                                                        721
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gi|15637589|gb|AAL04544.1|AF410856_1 type IV mutant polymer...
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gi|118897|sp|P06275|DPOL_WHV8 P protein [Includes: DNA-dire...
                                                                         706
                                                                               0.0
gi|3582379|dbj|BAA32928.1| pol protein [Hepatitis B virus]
                                                                        692
                                                                               0.0
gi|9885813|gb|AAG01539.1|AF291830_2 polymerase [Hepatitis B...
                                                                        692
                                                                               0.0
gi|118875|sp|P03158|DPOL_HPBVW DNA polymerase
                                                                        680
                                                                               0.0
gi|9628830|ref|NP_043864.1| polymerase [Arctic ground squir...
                                                                        669
                                                                               0.0
gi 8926931 dbj BAA98025.1 pol protein [Hepatitis B virus]
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                                                                               0.0
gi | 8926928 | dbj | BAA98023.1 |
                             pol protein [Hepatitis B virus]
                                                                        667
                                                                               0.0
gi | 8926925 | dbj | BAA98021.1 |
                             pol protein [Hepatitis B virus]
                                                                        667
                                                                               0.0
gi | 8926934 | dbj | BAA98027.1 | pol protein [Hepatitis B virus]
                                                                        655
                                                                               0.0
gi|13345982|gb|AAK19538.1|AF335734_2 polymerase [Hepatitis ...
                                                                        583
                                                                              e-166
gi|12083172|gb|AAG48743.1|AF329861_2 polymerase [Hepatitis ...
                                                                        583
                                                                              e-166
gi|13345979|gb|AAK19536.1|AF335733_2
                                         polymerase [Hepatitis ...
                                                                        583
                                                                              e-166
gi | 12083181 | gb | AAG48749.1 | AF329864 2
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                                                                        582
                                                                              e-166
gi|12083178|gb|AAG48747.1|AF329863 2
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                                                                        582
                                                                              e-165
gi|12083163|gb|AAG48737.1|AF329858 1
                                         polymerase [Hepatitis ...
                                                                        581
                                                                             e-165
gi|12083167|gb|AAG48740.1|AF329859_2
                                         polymerase [Hepatitis ...
                                                                        581
                                                                             e-165
gi | 13345988 | gb | AAK19542.1 | AF335736_2 polymerase [Hepatitis ...
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                                                                              e-165
gi|13345985|gb|AAK19540.1|AF335735_2 polymerase [Hepatitis ...
                                                                        578
                                                                              e-164
gi|2982339|gb|AAC06361.1| DNA polymerase [Hepatitis B virus]
                                                                        568
                                                                              e-161
gi|336159|gb|AAA46774.1| polymerase protein
gi|118899|sp|P11292|DPOL_WHVW6 P protein [Includes: DNA-dir...
                                                                        566
                                                                              e-161
                                                                        560
                                                                             e-159
gi|225532|prf||1305266C gene P
                                                                        555
                                                                             e-157
gi | 1107586 | emb | CAA56892.1 |
                              polymerase [Hepatitis B virus]
                                                                        540
                                                                             e-153
gi | 1107579 emb | CAA56878.1 | polymerase [Hepatitis B virus]
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                                                                             e-152
gi|1185116|emb|CAA51255.1| HBsAg [Hepatitis B virus]
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                                                                             e-130
gi|59414|emb|CAA32405.1| DNA polymerase [Hepatitis B virus]
                                                                        459
gi|21326589|ref|NP_647608.1| P gene product, put.DNA polyme...
                                                                             e-129
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                                                                             e-128
gi|1321828|emb|CAA96556.1| polymerase [Hepatitis B virus]
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                                                                             e-123
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                                                                             e-123
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                                                                             e-121
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gi|27466495|gb|AAO12590.1| polymerase [Hepatitis B virus]
gi|21218028|dbj|BAB96528.1| large S protein [Hepatitis B vi...
                                                                             e-120
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                                                                             e-115
gi|1321832|emb|CAA96561.1| polymerase [Hepatitis B virus]
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gi|27450188|gb|AA014551.1|AF460224_1 polymerase [Hepatitis ...
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gi|27450192|gb|AA014553.1|AF460226_1
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gi 27450194 gb AA014554.1 AF460227 1
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                                                                        382 e-105
gi|27450200|gb|AA014557.1|AF460230_1 polymerase [Hepatitis ...
gi|27450202|gb|AA014558.1|AF460231_1 polymerase [Hepatitis ...
                                                                        375 e-103
                                                                        375 e-103
gi|3328370|gb|AAC26832.1|
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                                                                            e-103
gi | 23380174 | gb | AAM83022.1 |
                              polymerase [Hepatitis B virus]
                                                                        373
                                                                             e-103
gi | 23380081 | gb | AAM82960.1 |
                              polymerase [Hepatitis B virus]
                                                                        373
                                                                             e-103
gi 23380171 | gb | AAM83020.1 |
                              polymerase [Hepatitis B virus]
                                                                        372
                                                                             e-102
gi 23380180 | gb | AAM83026.1 |
                              polymerase [Hepatitis B virus]
                                                                        370
                                                                             e-102
gi | 23380177 | gb | AAM83024.1 |
                              polymerase [Hepatitis B virus]
                                                                        369
                                                                             e-102
gi | 23380072 | gb | AAM82954.1 |
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                                                                        369
                                                                             e-101
gi | 23380084 | gb | AAM82962.1 |
                              polymerase [Hepatitis B virus] >...
                                                                        368
                                                                             e-101
gi | 23380078 | gb | AAM82958.1 |
                              polymerase [Hepatitis B virus]
                                                                        368
                                                                             e - 101
gi 23380066 | gb | AAM82950.1 |
                              polymerase [Hepatitis B virus]
                                                                        368
                                                                             e-101
gi|23380111|gb|AAM82980.1|
                              polymerase [Hepatitis B virus]
                                                                        368
                                                                             e-101
gi 23380063 | gb | AAM82948.1 |
                              polymerase [Hepatitis B virus]
                                                                        367
                                                                             e-101
gi | 23380087 | gb | AAM82964.1 |
                              polymerase [Hepatitis B virus]
                                                                        367
                                                                             e-101
gi|3335627|gb|AAD13662.1|
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                                                                        366
                                                                            e-101
gi 23380069 | gb | AAM82952.1 |
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                                                                        366
                                                                             e-101
gi | 23380090 | gb | AAM82966.1 |
                              polymerase [Hepatitis B virus]
                                                                       366
                                                                             e-101
gi | 23380060 | gb | AAM82946.1 |
                              polymerase [Hepatitis B virus]
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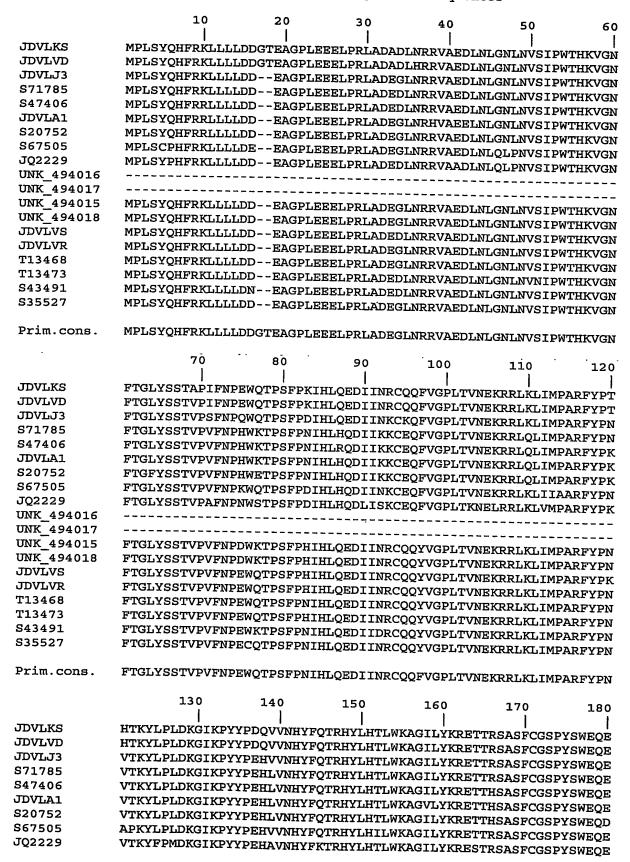
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gi 23380183 gb AAM83028.1
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gi | 23380120 | gb | AAM82986.1 |
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gi 23380129 gb AAM82992.1
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gi 23380186 gb AAM83030.1
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gi 23380030 gb AAM82926.1
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                                                                             3e-96
gi 23380021 gb AAM82920.1
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                                                                             3e-96
gi 23379934 gb AAM82862.1
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gi 23379868 gb AAM82818.1
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gi 23379904 gb AAM82842.1
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gi 23380045 gb AAM82936.1
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                                                                       346
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gi 23379877 | gb | AAM82824.1 |
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gi 23379880 gb AAM82826.1
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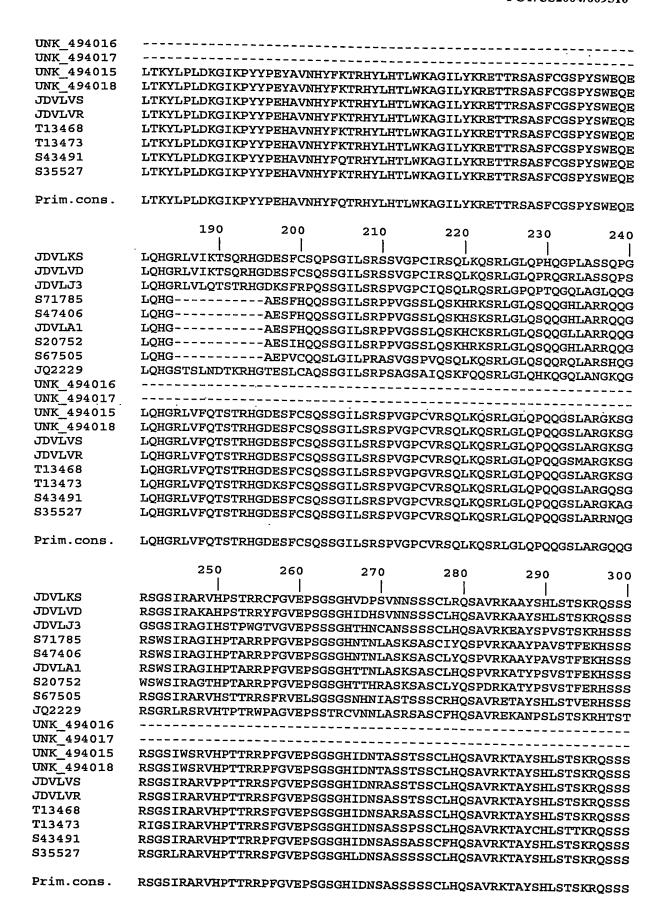
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gi|5019949|gb|AAD37932.1| P protein [Hepatitis B virus]
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gi|27450210|gb|AA014562.1|AF460235_1 polymerase [Hepatitis ... 338 2e-92
gi|27450206|gb|AA014560.1|AF460233_1 polymerase [Hepatitis ... 337 4e-92
gi | 1107593 | emb | CAA56885.1 | polymerase [Hepatitis B virus]
                                                                 336 7e-92
gi|27450208|gb|AA014561.1|AF460234_1 polymerase [Hepatitis ...
                                                                 336 8e-92
gi|27450182|gb|AA014548.1|AF460221_1 polymerase [Hepatitis ...
                                                                 336 8e-92
gi 27450184 | gb | AAO14549.1 | AF460222_1 polymerase [Hepatitis ... 335 2e-91
gi|3820918|emb|CAA08937.1| polymerase [Hepatitis B virus] >... 332 2e-90
gi 3820942 emb CAA08951.1 polymerase [Hepatitis B virus]
                                                                330 5e-90
gi|3820933|emb|CAA08947.1| polymerase [Hepatitis B virus]
                                                                326 8e-89
gi|3820945|emb|CAA08953.1| polymerase [Hepatitis B virus]
                                                                326 9e-89
gi|3820930|emb|CAA08945.1| polymerase [Hepatitis B virus]
                                                                325 3e-88
```

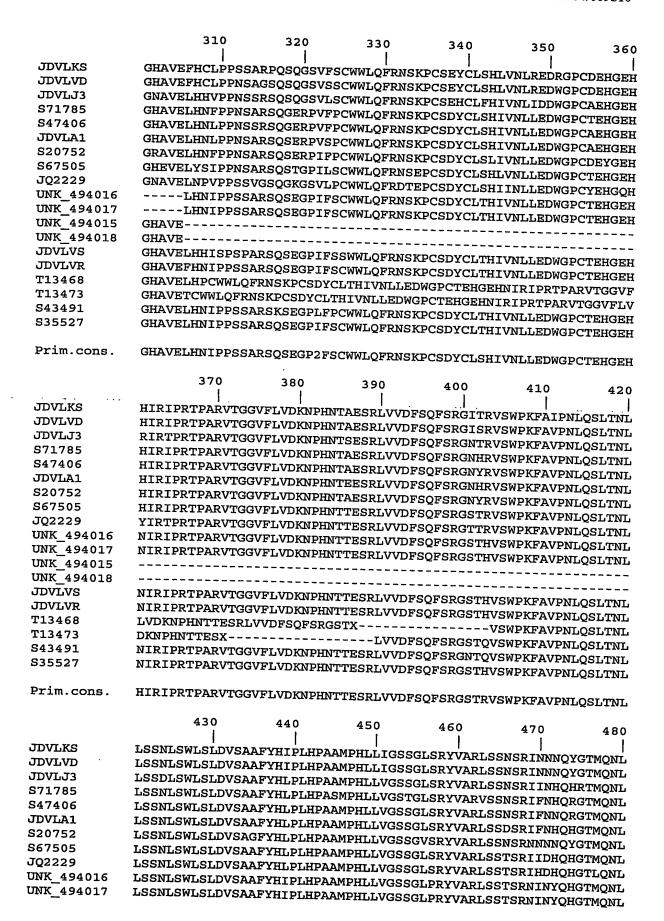
BLASTP 2.2.5 (Nov-16-2002) (Altschul, S.F., et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402 (1997)) against HBV subtype sequence S20757, cutoff = 3e-88 (to select human sequences).

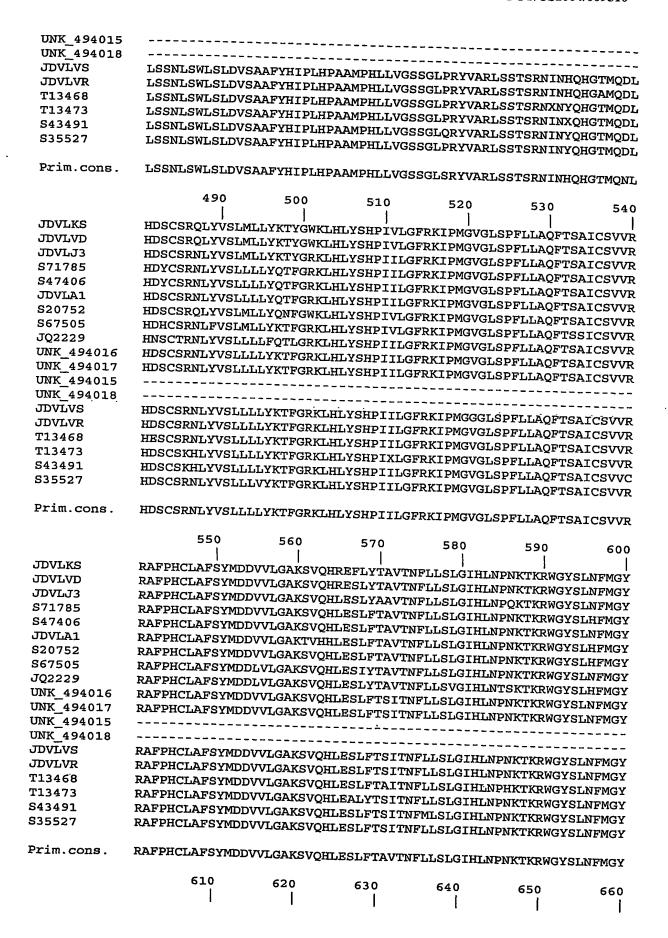
1,376,942 sequences; 442,405,847 total letters

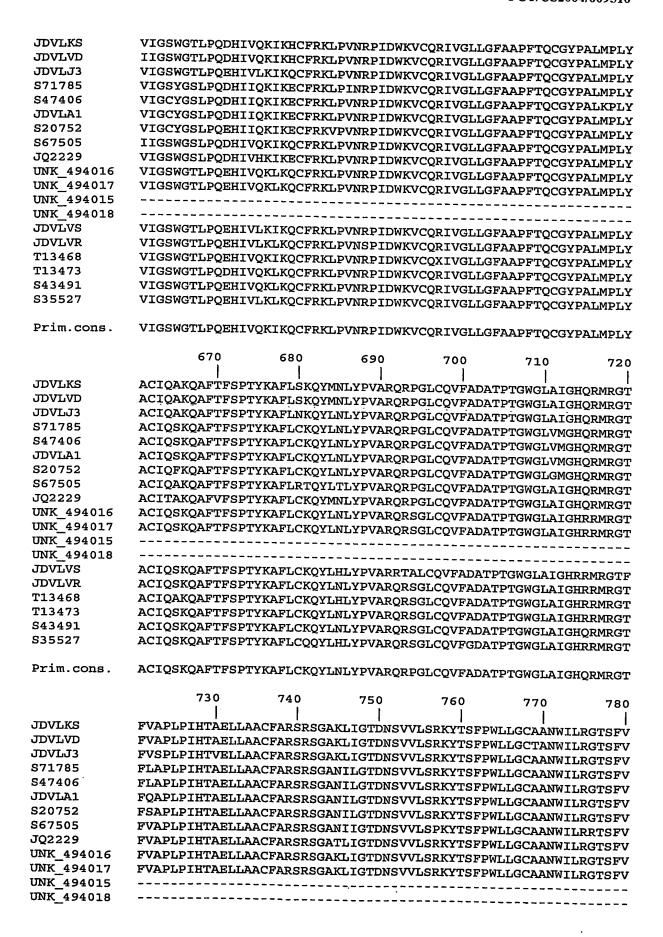
Table 21: CLUSTALW alignment of 19 HBV polymerase sequences











JDVLVS	VAPLPIHTAELLAA	CFARSRSGAK	LIGTDNSVV	LSRKYTSFPWL	LGCAANWTLE	マグオマヤン
JDVLVR	FVAPLPIHTAELLA	ACFARSRSGA	KLIGTDNSV	VLSRKYTSFPW	LLGCAANWII	RGTSFV
T13468	FVAPLPIHTAELLA	ACFARSRSGA	KLIGTONSV	VLSRKYTSFPW	LIGCAANWII	DGTSEV
T13473	FVAPLPIHTAELLA	ACFARSRSGA	KLIGTONSV	VLSRKYTSFPW	LLGCAANWTI	RGTSEV
S43491	FVAPLPIHTAELLA	ACFARSRSGA	TLIGTDNSV	VLSRKYTSFPW	LLGCAANWTI	VECTOR
S35527	FVAPLPIHTAELLA	ACFARSRSGA	KLIGTDNSV	VLSRKYTSFPW	LLGCAANWII	RGTSFV
Prim.cons.	FVAPLPIHTAELLA	ACFARSRSGA	KLIGTDNSV	VLSRKYTSFPW:	LLGCAANWII	RGTSFV
	790 	800 	810 	820 ]	830 	840 
JDVLKS	YVPSALNPADDPSR	GRLGLSRPLL	RLPFQPTTGI	RTSLYAVSPSVI	PSHLPVRVHE	I VH.TG2AT
<b>JDAFAD</b>	YVPSALNPADDPSR	GRLGLSRPLL	RLPFOPTTGI	RTSLYAVSPSV	PSHLPVRVHE	ASPIHV
JDAF13	YVPSALNPADDPSR	GRLGLYRPLL	RLPYRPTTGE	RTSLYADSPSV	PSHLPDRVHE	'ASPIHV
S71785	YVPSALNPADDPSR	GRLGIFRPLL	RLPFRPTTGI	RTSLYADSPSV	PSHLPVRVHE	ASPLHV
S47406	YVPSALNPADDPSR	GRLGLSRPLL	RLPFRPTTGI	RTSLYADSPSV	PSHLPDRVH	ASPLHV
JDVLA1	YVPSALNPADDPSR	GRLGLSRPLL]	RLPFRPTTGE	RTSLYADSPSVI	SHLPDRVHE	'ASPI.HV
S20752	YVPSALNPADDPSR	GRLGLSRPLL(	CLPFRPTTG	RTSLYADSPSVI	SHLPDRVHE	'ASPLHV
S67505	YVPSALNPADDPSR	.GRLGLYRPLL]	RPWFRPTTGF	RTSLYAVSPSVI	SHLPVRVHE	'ASPLHV
JQ2229	YVPSALNPADDPSR	.GRLGLYRPLLI	RLPFQPTTGE	RTSLYADSPSVI	SHLPDRVHR	'ASPLHV
UNK_494016	YVPSALNPADDPSR	.GRLGLYRPLLI	HLPFRPTTGE	RTSLYAVSPSVI	SHLPDRVHF	'ASPLHV
UNK_494017	YVPSALNPADDPSR	GRLGLYRPLLI	HLPFRPTTGF	RTSLYAVSPSVI	SHLPDRVHF	'ASPLHV
UNK_494015						
UNK_494018						
JDVLVS	VPSALNPADDPSRG	RLGLIRPLLH	LRFRPTTGRI	CSLYAVSPSVPS	SHLPDRVHFA	SPLHVA
JDVLVR_	YVPSALNPADDPSR	GRLGLYRPLLI	LPFRPTTGF	RTSLYAVSPSVI	SHLPDRVHF	ASPLHV
T13468	YVPSALNPADDPSR	GRLGLYRPLLI	ILPFRPTTGF	RTSLYAVSPSVI	SHLPDRVHF	ASPLHV
T13473	YVPSALNPADDPSR	GRLGLYRPLLI	ILPFRPTTGF	RTSLYAVSPSVI	SHLPDRVHF	ASPLHV
S43491	YVPSALNPADDPSR	GRLGLYRPLLI	RLSFRPTTGF	RTSLYAVSPSVI	SHLPDRVHF	ASPLHV
S35527	YVPSALNPADDPSR	GRLGLYRPLLI	HLPFQPTTGR	RTSLYAVSPSVI	SHLPVRVHF	ASPLHV
Prim.cons.	YVPSALNPADDPSR	GRLGLYRPLLI	RLPFRPTTGR	RTSLYAVSPSVI	SHLPDRVHF	ASPLHV
JDVLKS	AWRPP					
JDVLVD	AWRPP					
JDVLJ3	AWRPP					
S71785	AWRPP					
S47406	AWRPP					
JDVLA1	AWRPP					
S20752	AWRPP					
S67505	AWRPP					
JQ2229	AWRPP					
UNK_494016	AWRPP					
UNK_494017	AWRPP					
UNK 494015						
UNK_494018						
JDVLVS	WRPP-					
JDVLVR	AWRPP					
T13468	AWRPP					
T13473	AWRPP					
S43491	AWRPP					
S35527	AWRPP	•	-	•		
Prim.cons.	AWRPP					

CLUSTALW alignment of 19 HBV polymerare sequences representing the sybtypes adw (4), ayw (5), ayr (4) and adr (6) (NPS@: Network Protein Sequence Analysis, TIBS Vol. 25, No 3 (291):147-150, Combet C., Blanchet C., Geourjon C. and Deléage G. (March 2000))

CLUSTALW options used :
endgaps=1
gapdist=8
gapext=0.2
gapopen=10.0
hgapresidues=GPSNDQERK
ktuple=1
matrix=gonnet
maxdiv=30
outorder=aligned
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score=percent
topdiags=5
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window=5

Table 22. HCV Multiple Sequence Alignment GCG Multiple Sequence File. Written by Omiga 1.1

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Name: ED4		Len:	3052	Check:		Weight	: 1.00
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Name: HC_		Len:	3052	Check:		Weight:	1.00
Name: HCU		Len:	3052	Check:		Weight	
Name: HCV		Len:	3052	Check:		Weight	
Name: HCV	_	Len:	3052	Check:	4947	Weight	
Name: HCV		Len:	3052	Check:	2553	Weight	
Name: HCV		Len:	3052	Check:	9778	Weight	
Name: HCV		Len:	3052	Check:	4917	Weight	
Name: HCV		Len:	3052	Check:			
Name: HCV		Len:	3052	Check:	9084	Weight	
Name: HCV		Len:	3052	Check:		Weight:	1.00
Name: HCV		Len:	3052	Check:			
Name: HCV		Len:	3052	Check:			
Name: HCV	_K1_S2	Len:	3052	Check:		Weight:	
Name: HCV	<del></del>	Len:	3052	Check:			
Name: HCV		Len:	3052	Check:			
Name: HCV		Len:	3052	Check:		Weight:	
Name: HCV	12083	Len:	3052	Check:		Weight:	
Name: HCV	1480	Len:		Check:	5620	Weight:	
Name: HCVI	POLYP	Len:	3052	Check:		Weight:	
Name: HD_1	L	Len:	3052	Check:		Weight:	
Name: HPC	CGAA	Len:	3052	Check:		Weight:	
Name: HPC	?G	Len:	3052	Check:		Weight:	
Name: HPC	GENANTI	Len:	3052	Check:		Weight:	
Name: HPCC	SENOM	Len:	3052	Check:		Weight:	1.00
Name: HPCF	HUMR	Len:	3052	Check:		werdur:	1.00
Name: HPC		Len:	3052	Check:		Weight:	
Name: HPC	JCG	Len:	3052	Check:		Weight:	
Name: HPCJ		Len:	3052	Check:		Weight:	
Name: HPCJ		Len:	3052	Check:		Weight:	
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Name: HPCP		Len:	3052	Check:		Weight:	1.00
Name: HPCP		Len:	3052			Weight:	
Name: HPCU		Len:	3052	Check:		Weight:	
Name: MKC1		Len:	3052	Check: Check:		Weight:	1.00
Name: NDM5		Len:				Weight:	1.00
Name: NZLI		Len:	3052 3052	Check:		Weight:	1.00
Name: SA13		Len:	3052	Check:		Weight:	
Name: Th58		Len:		Check:			1.00
Name: Type		Len:	3052	Check:		eight:	1.00
Name: Type			3052	Check:		Weight:	1.00
Name: VN00		Len:	3052		303	Weight:	1.00
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Name: VN40		Len:	3052	Check:		Weight:	
	<i>J</i>	Len:	3052	Check:	7249	Weight:	1.00
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BEBE1		пртътен-	DDC ====				50
D89815	MSTNPKPQRK	TVKN.I.NK]	KPQ DVK	T. PGGGQI	VGGV	YLLPRR GI	PRLGVRAAR
ED43type_4	MSTNPKPQRK	TAKNTNR	KPQ DVK	T. PGGGQI	VGGV	YLLPRR GI	PRLGVRATR
HC C2	MSTNPKPQRK	TKKNTNRI	RPM DVK	FPGGGQI	VGGV	YLLPRR GI	PRLGVRATR
<del>-</del>	MSTNPKPQRK	TKKNTNRI	RPQ DVK	FPGGGOI	VGGV	עדינים מממיניזא	משעמונים זכו
HC_G9	MSTNPKPQRK	TKKNTNRI	RPQ DVK	FPGGGQI	VGGV	YLLPRR GE	סידי גו סוניבעו או

HC_G9 MSTNPKPQRK TKRNTNRRPQ DVKFPGGGQI VGGVYLLPRR GPRVGVRATR

HCU16326	MSTNPKPQRK	TKRNTNRRPQ	DIKFPGGGOI	VGGVYT.T.PRR	GPRLGVRATR
HCV_H_CMR	MSTNPKPQRK	TKRNTNRRPO	DVEFPGGGOT	VGGVVT.I.DDD	GPRLGVRATR
HCV J1	MSTIPKPORK	TKRNTNRRPO	DVKFPGGGOT	VCCVILLERA	GPRLGVRATR GPRLGVRATR
HCV J483	MSTNPKPORK	TKRNTNRRPO	DVKEDGGGOT	VGCVVIIDPRR	GPRLGVRATR GPRLGVRATR
HCV J8	MSTNPKPORK	TKRNTNRRPO	DAKEBGGGGT	VGGVYLLPRR	GPRLGVRATR
HCV JK1	MSTNPKPORK	TKRNTNIPPDO	DAKEBGGGGT	VGGVYLLPRR VGGVYLLPRR	GPRLGVRATR
HCV JS	MSTNDKPODK	TREMITINGLE	DAKEBGGGGT	VGGVYLLPRR	GPRLGVRATR
HCV K1 R1	MSTNIDKDODK	TIGOTINGS	DAKEAGGGÖT	VGGVYLLPRR	GPRLGVRATR
HCV K1 R2	MSTNIDKDODK	TIGHTINKKPQ	DAKLAGGGÖT	VGGVYLLPRR	GPRLGVRATR
HCV_K1_R2	MCGMIDADODA	TARNINRRPQ	DAKE-EGGGÖI	VGGVYLLPRR	GPRLGVRATR
HCV_K1_K3	MCUMDINDODIK	TKRNTNRRPQ	DVKFPGGGQI	VGGVYLLPRR	GPRLGVRATR
	MSINPKPORK	TKRNTNRRPQ	DVKFPGGGQI	VGGVYLLPRR	GPRLGVRATR
HCV_K1_S2	MSTNPKPQRK	TKRNTNRRPQ	DVKFPGGGQI	VGGVYLLPRR	GPRLGVRATR
HCV_K1_S3	WRINDKDÖKÖ	TKRNTNRRPQ	DVKFPGGGOI	VGGVYLLPRR	GDDT.GVD ATD
HCV_L2	MSTNPKPQRK	TKRNTNRRPQ	DVKFPGGGOI	VGGVYT,T,PRR	GDDT.GMD A TO
HCV_N	MSTNPKPQRK	TKRNTNRRPQ	EVKFPGGGOI	VGGVYTITIPRR	GDDT.GVD A TD
HCV12083	MSTTPKPOKK	TKRNTNRRPM	DVKFPGGGOI	VGGVYLLPRK	GDDT.CX/DATE
HCV1480	MSTNPKPQRK	TKRNTNRRPQ	DVKFPGGGOI	VGGVYIJPRR	GPKT.GVDATD
HCVPOLYP	MSTNPKPQRK	TKRNTNRRPQ	DVKFPGGGOI	VGGVYT.T.PPP	CDDI.CIDAT D
HD_1	MSTNPKPQRK	TKRNTNRRPQ	DVKFPGGGOI	VGGVYTITPRR	GDDT.GT/DATID
HPCCGAA	MSTNPKPQRK	TKRNTNRRPO	DVKFPGGGOT	VGGVYLLPRR	CDDICIDAMD
HPCFG	MSTLPKPKRQ	TKRNTLRRPK	NVKFPAGGOT	VGEVYVLPRR	GPOLCUMENT
HPCGENANTI	MSTNGKPORK	TKRNTNRRPO	DVKFPGGGOT	VGGVYLLPRR	CDDI CIDAMA
<b>HPCGENOM</b>	MSTNPKPORK	TKRNTNRRPO	DVKFPGGGOT	VGGVYLLPRR	GPRLGVRATR
HPCHUMR	MSTNPKPORK	TKRNTNRRPO	DAKEBGGGGT	VGGVYLLPRR	GPRLGVRATR
HPCJ	MSTNPKPORK	TKRNTNRRPO	DAKEBGGGGT	VGGVYLLPRR	GPRLGVRAPR
HPCJCG	MSTNPKPORK	TKRNTNDDDO	DAKEBGGGGT	VGGVYLLPRR	GPRLGVRATR
HPCJK046	MSTNPKPORO	TREMINITIANCE	DAKEBGGGGT	VGGVYLLPRR	GPRLGVRATR
HPCJK049	MSTI.PKPORT	TREMINICATE	DAKEBGGGGT	VGGVYLLPRR	GPRLGVRATR
HPCJTA	MSTNPKPOPK	TROWINKRPO	DAKEBGGGĞI	VGGVYVLPRR	GPKLGVRAVR
HPCJTB	MCTNIDKDODK	TIMMITARPO	DAKEBGGGGT	VGGVYVLPRR	GPTLGVRATR
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HPCPLYPRE	MCAMIDEDORK	IKKNITKKPO	DVKFPGGGVI	YVGVYVLPRR	GPRLGVRATR
	MOUNTERPORK	NKRNTNRRPQ	DVKFPGGGQI	VGGVYLLPRR	GPRLGVRATR
HPCPOLP	MOTHREE	TKRNTNRRPQ	DVKFPGGGQI	VGGVYLLPRR	GPRLGVRATR
HPCPP	MSTNPKPQRK	TKRNTNRRPQ	DVKFPGGGQI	VGGVYLLPRR	GPRLGVRATR
HPCUNKCD	MSTNPKPQRK	TKRNTNRRPQ	DIKFPGGGQI	VGGVYLLPRR	GPRLGVRATR
MKC1A	MSTNPKPQRK	IKRNTNRRPQ	DVKFPGGGOI	VGGVYI.I.PPP	CDDI.CMD A TO
NDM59	MSTNPKPQRK	TKRNTSRRPQ	DVKFPGGGOI	VGGVYLLPRR	GDB1.GMD vad
NZLI	MSTLPKPQRK	TKRNTIRRPQ	DVKFPGGGOI	VGGVYVT.PRR	GDDT.GMD ATTO
SA13	MSTNPKPQRK	TKRNTNRRPQ	DVKFPGGGOI	VGGVYLLPRR	GDBI'CMDVAD
Th580	MSTLPKPQRK	TKRNTNRRPM	DVKFPGGGOI	VGGVYTIPPP	GDDI.GVD A TO
Type_3a_CB	MSTLPKPQRK	TKRNTIRRPO	DVKFPGGGOT	VGGVVVII.DDD	CDDT.CVCAMD
TypeV_D	MSTLPKPQRK	TKRNTIRRPQ	DVKFPGGGOI	VGGVYVI,PRR	GDDT.GVD ATD
VN004	MSITPKFOKK	TKRNTNRRPM	DVKFPGGGOI	VGGVYLLPRR	CDDT.CMD ATTD
VN235	MSTLPKPQKR	NQRNTNRRPQ	DVKFPGGGOI	VGGVYLLPRR	GDD1.G1/D7mD
VN405	MSTLPKPQRK	TKRNTNRRPM	DVKFPGGGOI	VGGVYT.T.PRR	GDDI.GVDATR
			~		MIRMOUNIN
	51				100
BEBE1	KTSERSQPRG	RROPIPKORR	STGKSWGRPG	VDWDT.VDNEC	100
D89815	KTSERSQPRG	RROPIPKARR	PEGRTWAODG	VDWDI.VCMEG	LGWAGWLLSP
ED43type_4	KTSERSOPRG	RROPTPKARR	DECDEMYODG	VDWDI VONEG	LGWAGWLLSP
HC C2	KTSERSQPRG	RROPTPKARR	DECEDANACEC	VDWDI VOVEG	CGWAGWLLSP
HC G9	KTSERSOPRG	PROPTOKADO	DECDEMYODG	1 PWPLYGNEG	MGWAGWLLSP
HCU16326	KTSERSOPRG	PPOPTDEAGE	DECEMBER	IPWPLYGNEG	CGWAGWLLSP
HCV_H_CMR	KTSERSOPRG	PPODTDYARR	PEGRAWAQPG	YPWPLYGNEG	LGWAGWLLSP
HCV J1	KTSERSOPRG	DDUDLDMAN	PEGETWAQPG	IFWPLYGNEG	CGWAGWLLSP
HCV J483	KTSERSOPRG	WWALTEVAKK	PEGKTWAQPG	YPWPLYGNEG	CGWAGWLLSP
	KTSERSOPRG	MEGETEKAKK	PEGRAWAQPG	YPWPLYGNEG	LGWAGWLLSP
HCV_J8	KTSERSOPRG	VKÄNT NKDKK	STGKSWGKPG	YPWPLYGNEG	CGWAGWLLSP
HCV_JK1	KISEKSOPKG	RKQPIPKARQ	PEGRAWAOPG	YPWPLYGNEG	T.GWAGWT.T.CD
HCV_JS	KISERSQPRG	KKQPIPKARR	PEGRTWAOPG	YPWPLYGNEG	MCWAGWI.T.CD
HCV_K1_R1	KISERSQPRG	RRQPIPKARR	PEGRAWAOPG	YPWPLYGNEG	T.GWAGWT.T.CD
HCV_K1_R2	KTSERSQPRG	KRQPIPKARQ	PEGRAWAQPG	YPWPLYGNEG	MGWAGWLLSP

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HCV_K1_R3 KTSERSQPRG RRQPIPKVRR SEGRTWAQPG YPWPLYGNEG LGWAGWLLSP
 HCV_K1_S1 KTSERSQPRG RRQPIPKARR PEGRAWAQPG YPWPLYGNEG LGWAGWLLSP
 HCV_K1_S2 KTSERSQPRG RRQPIPKARQ PEGRAWAQPG YPWPLYGNEG MGWAGWLLSP
 HCV K1_S3 KTSERSQPRG RRQPIPKVRR SEGRTWAQPG YPWPLYGNEG LGWAGWLLSP
     HCV_L2 KTSERSQPRG RRQPIPKARQ PEGRAWAQPG YPWPLYANEG LGWAGWLLSP
      HCV_N KTSERSQPRG RRQPIPKARR PEGRAWAQPG YPWPLYGNEG MGWAGWLLSP
  HCV12083 KTSERSQPRG RRQPIPKARQ PQGRHWAQPG YPWPLYGSEG CGWAGWLLSP
    HCV1480 KNSERSQPRG RRQPIPKARR PTGRSWGQPG YPWPLYANEG LGWAGWLLSP
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      HPCFG KTSERSQPRG RRQPTPKARP REGRSWAQPG YPWPLYGNEG CGWAGWLLPP
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NDM59 KTSERSQPRG RRQPIPKDRR STGKSWGKPG YPWPLYGNEG LGWAGWLLSP
NZLI KTSERSQPRG RRQPIPKARR SEGRSWAQPG YPWPLYGNEG CGWAGWLLSP
SA13 KTSERSQPRG RRQPIPKARQ PTGRSWGQPG YPWPLYGNEG CGWAGWLLSP
Th580 KTSERSQPRG RRQPIPKARP SQGRTWGQPG YPWPLYGNEG CGWAGWLLSP
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TYPEV_D KTSERSQPRG RRQPIPKARR SEGRSWAQPG YPWPLYGNEG CGWAGWLLSP
VN004 KTSERSOPRG RRQPIPKARO PIGRSWGOPG YPWPLYGNEG CGWAGWLLSP
      VN004 KTSERSQPRG RRQPIPKARQ PIGRSWGQPG YPWPLYGNEG CGWAGWLLSP
      VN235 KTSERSQPRG RRQPIPKARR QTGRTWAQPG YPWPLYGNEG CGWMGWLLSP
      VN405 KTSERSQPRG RRQPIPKARQ SQGRHWAQPG YPWPLYGNEG CGWAGWLLSP
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     D89815 RGSRPSWGPN DPRRRSRNLG KVIDTLTCGF ADLMGYIPLV GAPLGGAARA
ED43type_4 RGSRPSWGPN DPRGRSRNLG KVIDTLTCGF ADLMGYIPLV GAPVGSVARA
      HC_C2 RGSRPSWGPN DPRRRSRNLG KVIDTLTCGF ADLMGYIPLV GAPLGGAARA
      HC_G9 RGSRPSWGPS DPRRRSRNLG KVIDTLTCGF ADLMGYIPLV GAPLGGAARA
  HCU16326 RGSRPSWGPT DPRRKSRNLG KVIDTLTCGF ADLMGYIPLV GAPLGGVARA
 HCV_H_CMR RGSRPSWGPT DPRRRSRNLG KVIDTLTCGF ADLMGYIPLV GAPLGGAARA
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      HPCPP NSSIPTTIR RHVDLLVGAA ALCSAMYVGD FCGSVFLVSQ LFTFSPRRYE
  HPCUNKCD NASVPTTTLR RHVDLLVGVA AFCSAMYVGD LCGSVFLVSQ LFTFSPRRHE
      MKC1A NSSIPTTTIR RHVDLLVGAA ALCSAMYVGD FCGSVFLVSQ LFTFSPRRYE
      NDM59 RPGALTQGLR AHIDMVVMSA TLCSALYVGD LCGGVMLAAQ MFIVSPQHHH
       NZLI YVGATTASIR SHVDLLVGAA TMCSALYVGD MCGAVFLVGQ AFTFRPRRHQ
        SA13 SLGAVTAPLR RAVDYLAGGA ALCSALYVGD ACGAVFLVGQ MFTYSPRRHN
      Th580 NASVPASGFR KHVDLLAGAA VVCSSMYIGD LCGAVFLAGQ LATFSPRIHD
Type_3a_CB YVGATTASIR SHVDLLVGAA TMCSALYVGD MCGAVFLVGQ AFTFRPRRHQ
   TypeV_D YVGATTASIR SHVDLLVGAA TMCSALYVGD MCGAVFLVGQ AFTFRPRRHQ
      VN004 NSSVPIHGFR RHVDLLVGAA AFCSAMYIGD LCGSVFLVGQ LFTFRPKHHQ
      VN235 NASIPVRGFR RHVDLMVGAA AFCSAMYVGD LCGGIFLVGQ LFSFNPRRHW
      VN405 NASVPIRGFR SHVDLLVGSA AACSALYIGD LCGGVFLVGQ LFTFRPRQHT
```

	301				250
BEBE1	FVQECNCSIY	PGKITGHRMA	WDMMMNWSPT	TITMT.T.A VT. 3TD	350 IPEVVLDIIT
D89815	TVQDCNCSIY	PGHVSGHRMA	WDMMMNWSPT		IPQAVMDMVA
ED43type_4	TTQDCNCSIY	TGHITGHRMA	WDMMMNWSPT		IPTTLVDLLS
HC_C2	TVQDCNCSIY	PGHITGHRMA	WDMMMNWSPT	TITOUTAGVIK	IPQAVMDMVA
HC G9	TTQDCNCSIY	PGHVTGHRMA	WDMMMNWSPT	CALVANOI LE	IPQAVMDMVA IPQAIVDMIA
HCU16326	TVQDCNCSIY	PGRVSGHRMA	WDMMMNWSPT	TALIANCOL L D	IPQAIVDMIA
HCV H CMR	TTQSCNCSIY	PGHITGHRMA	WDMMMNWSPT	TATIVACITE	IPQAVVDMVT
HCV_J1	TTOGCNCSIY	PGHITGHRMA	WDMMMNWSPT	WATIA AWOUTE	IPQAIMDMIA
HCV J483	TVODCNCSIY	PGHLSGHRMA	WDMMMNWSPT	WATI AMICOL L'D	IPQAILDMIA
HCV J8	FTOECNCSIY	OGHTTGHRMA	WDMMLSWSPT	THUVVSQLLR	IPQAVVDMVA
HCV_JK1	TVODCNCSLY	PGHVSGHPMA	WDMMMNWSPT	DIMITALIAN	VPELVLEIIF
HCV JS	TVODCNCSLY	PGHVSGHPMA	WDMMMNWSPT	TATANASÕTPK	IPQAVVDMVV
HCV_K1_R1	TVODCNCSTY	PGHVSGHPMA	WDMMMNWSPT	WALLANGOTE	IPQAVVDMVA
HCV K1 R2	TVODCNCSTY	PCHT/SCHDMA	WDMMMNWSPT	TALVVSQLLR	IPQAVVDMVA
HCV K1 R3	TVODCNCSLY	PCHTTCUDMA	WDMMMNWSPT	TALVVSQLLR	IPQAVMDMVA
HCV K1 S1	TVODCNCSTY	PCHYSCHDMA	WDMMMNWSPT	TALVVSQLLR	IPQAVVDMVA
HCV K1 S2	TVODCNCSTY	DCHACGRDMY	WDMMMNWSPT	TALVVSQLLR	IPQAVVDMVA
HCV K1 S3	TVODCNCSLV	DCHTTCUDMA	WDMMMNWSPT	TALVVSQLLR	IPQAVMDMVA
HCV L2	TVODCNCSIV	PCHT TCHNA	WDMMMMWSPT	TALVVSQLLR	IPQAVMDMVA
HCA N	TLODONOSIV	DCHACCUDMA	WDMMMNWSPT	AALVVSQLLR	IPQAIVDMVA
HCV12083	TVQDCNCSIY	TCHTTCHTA	MDMMMMMS5.T.	TALVVSQLLR	IPQAVIDMVA
HCV1480	TVODONOSTV	CCHTTCHDMA	WDMMMKWSPT	TTLVLSSILR	VPEICASVIF
HCVPOLYP	TVODCNCSIV	DCUTTCUDMA	WDMMMNWSPT	TALLMAQLLR	IPQVVIDIIA
HD_1	TVODCNCSIY	PCHICCIDMA	MDMMMMS D.T.	AALVVSQLLR	IPQAIVDMVA
HPCCGAA	TTQDCNCSIY	DCHTCCIDMA	MDMMMMSPT	AALVVSQLLR	IPQAVVDMVA
HPCFG	TVQTCNCSIY	PCITICCUDMA	WIMMIMINWSPT	AALVVAQLLR	IPQAIMDMIA
HPCGENANTI	TVQDCNCSIY	PCHTTCTIDMA	WDMMMNWSPA	IGLVISHLMR	LPQTFFDLVV
HPCGENOM	TIQDCNCSIY	PCITITICITINA	WDMMMMSPT	TALVVSQLLR	IPQAVVDMVG
HPCHUMR	TLQDCNCSIY	PGITTICGITMA	WDMMMNWSPT	TALVVSQLLR	IPQAVMDMVV
HPCJ	TVQDCNCSIY	PGHVSGHRIVA DCHT CCTIDMA	WDMMMNWSPT	TALVVSQLLR	IPQAVVDMVA
HPCJCG	TVQDCNCSIY	PGHLSGHRMA	WDMMMNWSPT	AALVVSQLLR	IPQAVVDMVA
HPCJK046	TACDCMCSTA	PGHVSGHRMA	WDMMMNWSPT	TALVVSQLLR	IPQAVVDMVA
HPCJK049	TVQDCNCSIY	TGHVTGHRMA	WDMMMNWSPT	ATFVVSSALR	APQVLFDIFA
HPCJTA	TVQDCNCSIY	PGHLTGHRMA	WDMMMNWSPA	MTLIVSQVLR	LPQTMFDLVI
HPCJTB	TVQDCNCSIY	PGHVSGHRMA	WDMMMNWSPT	TALVVSQLLR	IPQAVVDMVA
HPCK3A	TVQDCNCSIY	PGHVSGHRMA	WDMMMNWSPT	TALVVSQLLR	IPQAVVDMVA
HPCPLYPRE	TVQTCNCSLY	PGHLSGQRMA	WDMMMNWSPA	VGMVVAHILR	LPQTLFDVVA
HPCPOLP	TTQGCNCSIY	PGHITGHRMA	WDMMMNWSPT	TALVMAQLLR	IPQAILDMIA
HPCPP	FVQDCNCSIY	PGTTTGHRMA	WDMMMNWSPT	ATMILAYAMR	VPEVIIDIIG
HPCUNKCD	TVQDCNCSIY	PGHVSGHRMA	WDMIMNWSPT	TALVVSQLLR	IPQAVVDMVA
MKC1A	TVQDCNCSIY	PGRVSGHRMA	WDMMMNWSPT	TALVVSQLLR	IPQAVVDMVT
NDM59	TVQDCNCSIY	PGHVSGHRMA	WDMIMNWSPT	TALVVSQLLR	IPQAVVDMVA
NZLI	T. A OFFICIAC 2 T.I.	PGATTGHRMA	WDMMMNWSPT	ATMILAYAMD	VDEVITIDITE
SA13	TAGICUCPUI	PGHLSGHRMA	WDMMMNWSPA	VGMVVAHVT.P	L.DOTT. DDTMA
	VVQDCNCSIY	SGHITGHRMA	WDMMMNWSPT	TALVMAQLLR	IPQVVIDIIA
Th580	TTQUCNCSVY	TGHVTGHRMA	WDMMMNWSPT	TTLVLSSTIR	VPETVI.EVEN
Type_3a_CB	TAGLCMCSTA	PGHLSGHRMA	WDMMMNWFPA	LGMAVAHVT.R	VDOTT. FDTTA
TypeV_D	TVQTCNCSLY	PGHLSGHRMA	WDMMMNWSPA	VGMVVSHVT.R	T.DOTT.FOTTA
VN004	ALODCINGSIA	AGHITGHRMA	WDMMLNWSPT	VSYVVSSAT.D	VDOI.I.I.DOV
VN235 VN405	AAĞDÇMÇRIA	VGHITGHRMA	WDMMMNWSPT	ATTATASYMD	TDOMETER
VN#U5	TVQECNCSIY	TGHLTGHRMA	WDMMMNWSPT	VTFITSSLLR	VPQLLLEIAL

	351				
BEBEI		AMMONOGRAM			400
D89815	COUMCAMAGE	AYFSMQGAWA	KVVVILLLTA	GVEASTYTTG	400 AVVGRSTHLF
ED43type_4	GWIMO A TWGT	AIISMVGNWA	. KVLIVMLLFA	GVDGHTPCVTC	CMCCHAMOMA
HC C2	GGHMGATIAGA	AIFSMQANWA	. KVILVLFLFA	CVIDARTHICC	A A STOTE CHIRACT
_	GHUMGATHGT	. AYYSMVGNWA	. KVLIVLLLFA	CINCINTERING	CANADORGOT
HC_G9 HCU16326	GUTTAG A TTWGT	I AIISMVGNWA	. KVVVVT.T.T.PD	איייני מייים א כולונים	CARCITICA
	GOUNGITIAGE	• AYYSMVGNWA	KVT.TAMT.T.PA	വ്വാവസ്ത്യാ	0300D33000
HCV_H_CMR	CENTING A TENCT	. AIFSMVGNWA	. KVI VVT T T ፑል	רענותות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אינות אות אות אות אות אות אות אות אות אות א	CONCITMENT
HCV_J1	GWTINGATIVET	. AIFSMVGNWA	KVT.VXXT.T.T.TX		0033555
HCV_J483	GATING A TIMOT	AIISMVGNWA	KVLTVALLED	CONCERVACA	ON NOTTERPORT
HCV_J8	GGITMGAALGT	ALLOMOGAWA	KVIATTITIVA	CITIDATETACCO	OD A CD CTT
HCV_JK1	CTING A TWGT	HIISMVGNWA	KVLIVMLLFA	ᢗᠯ᠓ᢗᡎᡎᢦᡳᢊᠸᡕ	CHACOMMODAL
HCV_JS	GWING A TWGT	I ALISMIGNWA	KVT.TVMT.T.TA		GTT03 TT03
HCV_K1_R1	GATINGATIVE	I AYYSMVGNWA	KVLIVMIII	CIDCITTYTTC	N N O CID CIT CON T
HCV_K1_R2		MIISMVGNWA	KVLTVMLLTDA	CITICATEVATOR	CA Tratteman
HCV_K1_R3	GETTING ATTERED	VIISMVGNWA	KVI $TVMT$ $T$ $TV$	Cimeentrica	COMPANDED OF
HCV_K1_S1	CLUTING A TIVICE	AIISMVGNWA	KVITVMTTDA	CITTOTTOTION	OR COTTEMPORE
HCV_K1_S2	GWINGATHGT	AIISMVGNWA	KVT.TVMT.T.TA	C17DCDmm ma	03 00****
HCV_K1_S3	CWING A TIVET	VIISMVGNWA	KVLIVMITFU	GVDGGTDVGC	COUNTY VALUE OF
HCV_L2	GWIING A TIVGT	AIIPMVGNWA	KVLIVMIIIPA	CITTLEMENTATION	
HCV_N	GWIIMG A THGT	AIISMAGNWA	KVLIVMLLFA	GVDGHTH.TTC	CHABIT MOOR
HCV12083	GGIIMGTTDTWA	AYFGMAGNWL	KVI,AVI,FI,FA	CITED OF MITS	TTCTTCCCCC
HCV1480	GGIIMG A TITHW	AIFASTANWA	KVILVLFLFA	CVDCPTETTOC	COMICOGI TOT
HCVPOLYP	GWIINGATIWGT	ALISMVGNWA	KVLTVMLLDA	C17DC1Drettremo	CITTA CIDA TO TO TO
HD_1	GHTMG A TTAGT	AYYSMVGNWA	KT/T.TT/MT.T.Fr	<u>പ്രസ്തന്നായ</u>	GGG777
HPCCGAA	CHTMG ATT4GT	<b>NIFSMVGNWA</b>	KVLVVIIIIFA	CLUDY EARTHAN	CNINCIDENTS OF
HPCFG	GAHWGVMAGL	AYFSMQGNWA	KVVIVITMES	CADVALATIO	GNAGRITAGL
<b>HPCGENANTI</b>	GAHWGVLAGL	AYYSMVGNWA	KVT.TVMT.T.FA	GADGETTAGG	GSAAQATAGF
HPCGENOM	GAHWGVLAGL	AYYAMVGNWA	KVT.TVMT.T.FA	GADGRITARG	GIVARTIHSL
HPCHUMR	GAHWGVLAGL	AYYSMAGNWA	KVT.TVMT.T.EA	CADCIDITABG	GAQGRSTLGF
HPCJ	GAHWGVLAGL	AYYSMVGNWA	KVIII VIIIII A	GADGDTHATG	GAQAKTINRL
HPCJCG	GAHWGVLAGI	AYYSMVGNWA	KANTAMITE W	GADGALALLG	GAVARTTTGF
HPCJK046	GGHWGIIGAL	LYYSTAANWA	MATTALL LES	GVDGHTHVTG	GRVASSTQSL
HPCJK049	GAHWGVMAGV	AYYSMQGNWA	KALIATOTEA	GVDAST.YVA	SSVSQATSGL
HPCJTA	GAHWGVT AGT.	AVVSMUGNWA	KVFDVLCLFS	GVDASTTITG	GVAASGAFTI
НРСЈТВ	GAHWGVLAGI	AYYSMVGNWA	KADI AMPIRA	GADGALALLG	GSQARHTQSV
<b>НРСКЗА</b>	GAHWGT TAGT.	AYYSMVGNWA	VATTAMPTEV	GVDGVTYTTG	GSQARHTQGV
HPCPLYPRE	GAHWGVT.AGT	AYYSMQGNWA	KVALIMVMFS	GVDASTHVTA	GQAARNAYGI
HPCPOLP	GAHWGVMFGI.	AYFSMVGNWA	KVLVVLLLFA	GVDAETHVTG	GSAGHTVSGF
HPCPP	GAHWGWI.AGI.	AYFSMQGAWA	KAAATTTTTAA	GVDAQTHTVG	GSTAHNARTL
HPCUNKCD	GSHWGTI.AGI.	AYYSMVGNWA	KVLVVMLLFA	GVDGGTHVTG	GKVAYTTQGF
MKC1A	CAUMCALAGE	AYYSMVGNWA	KVLIAMLLFA	GVDGTTHVTG	GAQGRAASSL
NDM59	CATINGAMECT	AYYSMVGNWA	KVLVVMLLFA	GVDGGTHVTG	GKVAYTTQGF
NZLI	OTHER OFFI	ATTOMOGAWA	KVVVIIIIITA	CTID A EUROPE TA	COTTATTAMONT
SA13	OTHING THEGD	ATTOMOGNWA	KVALIMVMFS		OMA OBSTRACT -
Th580	OWINGAREWA	AMMAAAMWA	KVVIVITITA		003300350
Type_3a_CB	COTINGATIVE	MILCUSCUMT	KVIAVT.FT.FA	(17) TO A TOTAL	D330D03***
TypeV_D	CHINGITHGD	MIISMUGNWA	KVALIMVMFS	$\alpha$	CONNITATION
VN004	CENTINGTITIED	ALISMOGNWA	KVAVIMVMFS	CUDAEUVTUO	CONNICTIONS
	CHING A FIGHT	TALOMATIMA	KATAAPEPET	ርልኮልጥጥ የጥሎ	CATICOMMON
VN235 VN405	COMMETTINGT	AWMAVMGIIL	KVLCILFLFA	$\Box$ VUVD	
VM402	EGHWGVIGAL	LYYSMVAŅWA	KVFAVLLLFA	GVDATT.HIG	SSASATTNRL
-					
DEDE	401			•	450
BEBE1	TSMFSLGSQQ	RVQLIHTNGS	WHINRTALNC	NDSLETGFLA	AT. PVTCCPNC
D89815	TOTLKEGYZŐ	VIOTANINGS	WHINRTALNC	MDSLKTCET.A	A.T. ERVERTITETRALA
ED43type_4	WILL SOGSYO	NTOTINENCE	WHINRTALNC	NDSLNTGET.A	CT EVITERENTO
HC_C2	TOTLOKGESŐ	KIQLVNTNGS	WHINRTALNC	NDSFNTGFT.A	AT EVAIDENTO
HC_G9	<b>WOLTHE GWLÓ</b>	KTÖLTNINGS	WHINRTALNC	NESLOTCWIA	CT I VVIIIITENIO
HCU16326	TOTESEGEAO	HTÖTTNINGS	WHINRTALSC	NDSLATCETIA	AT DVVVD DATA
HCV_H_CMR	AGTITIEGHVÖ	NIOPINLINGS	WHINSTALNO	MDST. TOTOMENT N	OT ENDINGER
HCV_J1	VSLFTPGAKQ	NIQLINTNGS	WHINSTALNC	NESLNTGWT.	CITAUARMO CITAUARMO
				TAT T GMTTH	CHITCHVEND

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HCV_J483 ASLFSPGASQ RIQLVNTNGS WHINRTALNC NDSLHTGFLA ALFYTHRFNS
      HCV_J8 AGLFTTGAKQ NLYLINTNGS WHINRTALNC NDSLQTGFLA SLFYTHKFNS
     HCV_JK1 ASFFSPGSAQ KIQLVNTNGS WHINRTALNC NESINTGFFA ALFYVKKFNS
      HCV_JS ASLFNVGPHQ KIQLVNTNGS WHINRTALNC NDTLQTGFLA ALFYKHRFNA
  HCV_K1_R1 TSIFTPGASQ NIQLINTNGS WHINRTALNC NDSLQTGFIA ALFYARRFNS
  HCV_K1_R2 VSLFAPGAQQ KIQLVNTNGS WHINRTALNC NDSLNTGFLA ALFYTHRFNS
  HCV_K1_R3 TSLFSSGAQQ KIQLVNTNGS WHINRTALNC NDTLQTGFLA ALFYTHRFND
  HCV_K1_S1 ASLFTSGASQ NIQLINTNGS WHINRTALNC NDSLQTGFIA ALFYAHRFNS
  HCV_K1_S2 ASLFTFGAQQ RIQLVNTNGS WHINRTALNC NDSLNTGFLA ALFYTHRFNS
  HCV K1_S3 TSLFSSGAQQ KIQLVNTNGS WHINRTALNC NDTLQTGFLA ALFYTHRFND
       HCV_L2 TGLFRPGASQ KIQLINTNGS WHINRTALNC NDSLNTGFLA ALFYTHRFNA
        HCV_N AGLFTPGPSQ RIQLINTNGS WHINRTALNC NDSLQTGFLA ALSYTYRFNS
   HCV12083 ASLLTPGAKQ NIQLINTNGS WHINRTALNC NDSLQTGFLA SLFYTHKFNS
     HCV1480 TSFFNPGPQR QLQFVNTNGS WHINSTALNC NDSLQTGFIA GLMYAHKFNS
   HCVPOLYP TGFFSLGPKQ KIQLVNTNGS WHINRTALNC NDSLNTGWLA ALFYTHSFNA
          HD_1 TSLYTRGPSQ RIQLVNTNGS WHINRTALNC NDSLQTGFLA ALFYTRSFNS
     HPCCGAA VGLLTPGAKQ NIQLINTNGS WHINSTALNC NESLNTGWLA GLFYQHKFNS
        HPCFG TSFFTRGPSQ NLQLVNSNGS WHINSTALNC NDSLNTGFIA GLFYYHKFNS
HPCGENANTI ASLFTQGASQ KIQLINTNGS WHINRTALNC NDSLQTGFLA SLFYAHRFNA
   HPCGENOM TSLFTPGASQ KIQLINTNGS WHINRTALNC NDSLNTGFLA ALFYTHRFNA
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HPCJ ASLFSAGSQE NIQLINTNGS WHINRTALNC NDSLQTGFLA ALFYTHKFNS
HPCJCG VSWLSQGPSQ KIQLVNTNGS WHINRTALNC NDSLQTGFIA ALFYAHRFNA
 HPCJCG VSWLSQGPSQ KIQLVNTNGS WHINRTALNC NDSLQTGFIA ALFYAHRFNA
HPCJK046 VSLFSAGARQ NLQLINTNGS WHINRTALNC NDSLQTGFIA SLFYRNKFNA
HPCJK049 TSLFSTGAKQ PLHLVNTNGS WHINRTALNC NDSLNTGFIA GLLYYHKFNS
HPCJTA TSFFTQGPAQ RIQLINTNGS WHINRTALNC NESLNTGFFA ALFYAHKFNS
HPCJTB ASFFTPGPAQ KIQLINTNGS WHINRTALNC NESLNTGFFA ALFYAHKFNS
HPCK3A TSLFSVGAKQ NLQLINTNGS WHINRTALNC NESLNTGFIA GLFYYHKFNS
HPCPLYPRE VSLLAPGAKQ NVQLINTNGS WHINRTALNC NDSLNTGWLA GLFYHHKFNS
HPCPOLP TGMFSLGARQ KIQLINTNGS WHINRTALNC NDSLNTGWLA GLFYHHKFNS
HPCPP TSFFSRGPSQ KIQLVNTNGS WHINRTALNC NDSLNTGFLA ALFYTHSFNA
HPCUNKCD TSLFSPGPVQ HLQLINTNGS WHINRTALNC NDSLNTGFLA ALFYTHSFNA
NDM59 AGLFTSGAKQ NIOLINTNGS WHINRTALNC NDSLNTGFLA ALFYTHSFNA
        NDM59 AGLFTSGAKQ NIQLINTNGS WHINRTALNC NDSLNTGFIA SLFYTYRFNS
          NZLI AGLFDIGPQQ KLQLVNTNGS WHINSTALNC NESINTGFIA GLFYYHKFNS
          SA13 ASLFTPGPQQ NLQLINTNGS WHINRTALNC NDSLQTGFVA GLLYYHKFNS
        Th580 TSIFSSGPNQ KIQLINTNGS WHINRTALNC IDSLQTGFLS ALFYRSNFNS
Type_3a_CB TSLFSVGAQQ KLQLVNTNGS WHINSTALNC NESINTGFIA GLFYYHRFNS
     TypeV_D TSLFSSGPQQ KLQLVKTNGS WHINSTALNC NESINTGFIA GLFYYHKFNS
        VN004 VSLFSPGPTQ NLQLVNSNGS WHINRTALNC NDSLQTGFIA GLFARYKFNS
        VN235 TGLFQTGAKQ NIHLINTNGS WHINRTALNC NDSLNTGFMA ALFYLHKFNS
        VN405 TSFFSPGSKQ NVQLIKTNGS WHINRTALNC NDSLHTGFIA GLLYAHRFNS
        BEBE1 SGCPERLAAC RSIESFRIGW GSLEYEESVT NDADMRPYCW HYPPRPCGIV
D89815 SGCPERMASC RSIDKFDQGW GPITYAQPD. .NSDQRPYCW HYAPRQCGIV ED43type_4 SGCSERLACC KSLDSYGQGW GPLGVANISG .SSDDRPYCW HYAPRPCGIV
   HC_C2 SGCPERMASC RSIDKFDQGW GPITYYQGD. .SPDQRPYCW HYPPRPCGIV
HC_G9 SGCPERMASC QPLTAFDQGW GPITHEGNA. .SDDQRPYCW HYALRPCGIV
HCU16326 SGCPERLATC RPIDTFAQGW GPITYTEPH. .DLDQRPYCW HYAPQPCGIV
 HCV_H_CMR SGCPERLASC RRLTDFAQGW GPISYANGS. GLDERPYCW HYPPRPCGIV
HCV_J1 SGCPERLASC RRLTDFDQGW GPISHANGS. GPDQRPYCW HYPPRPCGIV
HCV_J483 SGCPERMASC RPIDWFAQGW GPITYTEPD. SPDQRPYCW HYAPRPCGIV
HCV_J8 SGCPERLSSC RGLDDFRIGW GTLEYETNVT NDGDMRPYCW HYPPRPCGIV
 HCV_JK1 SGCPERLSSC RGLDDFKIGW GTLEYETNVT NDGDMRPYCW HYPPRPCGIV SGCSERMASC RPIDRFAQGW GPITHAESR. SSDQRPYCW HYAPQPCGIV HCV_K1_R1 SGCPQRLASC RSIDKFAQGW GPITYAEGH. DSDQRPYCW HYAPRPCGIV HCV_K1_R2 SGCPERMASC RSIDAFAQGW GPITYAEGG. SSDQRPYCW HYAPRPCGIV HCV_K1_R3 SGCPERMASC RPIDKFAQGW GPITYVKPD. ILDQRPYCW HYAPRPCGIV HCV_K1_S1 SGCPQRLASC RSIDAFAQGW GPITYTEGH. NSDQRPYCW HYAPRPCGIV HCV_K1_S2 SGCPERIASC RSIDAFAQGW GPITYAEPG. SSDQRPYCW HYAPRPCGIV HCV_K1_S2 SGCPERIASC RSIDAFAQGW GPITYAEPG. SSDQRPYCW HYAPRPCGIV
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HCV_K1_S3 SGCPERMASC RPIDKFAQGW GPITYAKPD. .ILDQRPYCW HYAPRPCGIV
       HCV_L2 SGCPERMASC QSIDKFVQGW GPITYAENG. .SSDQRPYCW HYAPRRCGIV
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    HPCJK046 AACNWTRGER CDLADRDRIE MSPLLFSTTE LAILPCSFTT MPALSTGLIH
    HPCJK049 AACNWTRGER CNLEDRDRSE MYPLLHSTTE QAILPCSFVP IPALSTGLIH
        HPCJTA AACNWTRGER CDLEDRDRSE LSPLLLSTTE WQTLPCSFTT LPALSTGLIH
        HPCJTB AACNWTRGER CDLEDRDRSE LSPLLLSTTE WQTLPCSFTT LPALSTGLIH
        HPCK3A AACNWTRGER CDIEDRDRSE QHPLLHSTTE LAILPCSFTP MPALSTGLIH
  HPCPLYPRE AACNWTRGER CDLEDRDRSE LSPLLLTTTQ WQVLPCSFTT LPALSTGLIH
      HPCPOLP AACNFTRGDR CNLEDRDRSQ LSPLLHSTTE WAILPCTYSD LPALSTGLLH
          HPCPP AACNWTRGER CDLEDRDRSE LSPLLLSTTE WQVLPCSFTT LPALSTGLIH
    HPCUNKCD AACNWTRGER CDLEDRDRSE LSPLLLSTTE WQVLPCSFTT LPALSTGLIH
          MKC1A AACNWTRGER CDLEDRDRSE LSPLLLSTTE WQVLPCSFTT LPALSTGLIH
          NDM59 AACNFTRGDP CNLEDRDRSQ LSPLLHSTTE WAILPCSYSD LPALSTGLLH
            NZLI AACNWTRGER CDIEDRDRSE QHPLLHSTTE LAILPCSFTP MPALSTGLIH
            SA13 VACNWTRGER CDLEDRDRAE LSPLLHTTTQ WAILPCSFTP TPALSTGLIH
          Th580 AACNWTRGDR CDLYDRDRIE MSPLLFSTTQ LAILPCSFTT MPALSTGLIH
Type_3a_CB AACNWTRGER CDIEDRDRSE QHPLLHSTTE LAILPCSFTP MPALSTGLIH
      TypeV_D AACNWTRGER CNIEDRDRSE QHPLLHSTTE LAILPCSFTP MPALSTGLIH
          VN004 AACNWTRGDR CELDDRDRFE MSPLLFSTTQ LAILPCSFTT MPALSTGLIH
          VN235 AACNWTRGER CELEDRDRIE MSPLLFSTTE LAILPCSFTT MPALSTGLVH
          VN405 AACNWTRGER CELDDRDRVE MSPLLFSTTQ LSILPCSFTT MPALSTGLIH
          BEBE1 LHQNIVDVQY LYGLSPAITK YVVKWEWVVL LFLLLADARV CACLWMLLLL
```

D89815	I.UONITIMIOU.	TVGTGGNING	T3 T		
ED43type 4	THOMETADATA	LIGIGSAVVS	IAIKWEYVVL	LFLLLADARV	CACLWMMLLI
HC C2	TUČNTADAČI	LIGVGSAVVS	WALKWEYVVL	AFLLLADARV	SAYLWMMFMV
HC_C2	THUMINDACA	LYGIGSAVVS	FAIKWEYVLL	LFLLLADARV	CACLWMMLLI
HCU16326	THOMINDION	LYGISSAVTS	WVIKWEYVVL	LFLLLADARI	CACLWMMLLI
HCV H CMR	THOMETADIOA	LYGYGGANVS	FAIKWEYIVL	LFLLLADARV	CACLWMMLLV
HCV_H_CMR	THOMETADAGE	LYGVGSSIAS	WAIKWEYVVL	LFLLLADARV	CSCLWMMLLI
_	THÖNTADAĞĂ	LYGVGSSIAS	MAIKWEYVVL	LFLLLADARV	CSCLWMMLLI
HCV_J483	PHÖNTADAÖĀ	LYGVGSAFVS	FAIKWEYTTI	T.FT.T.T.DDADW	CA OT MAKET T T
HCV_J8	THÖNTADAĞA	LYGLSPALTR	YIVKWEWVIL	TIPITITADADT	CACT MAT TIT
HCV_JK1	THOM TADA Ó A	LYGVGSAVVS	IVIKWEYVT.T.	T.FT.T.T.ADADW	C'A CIT TANGENT T T
HCV_JS	THENTADAĞĀ	LYGIGSAVVS	FAIKWEYVLL	T.FT.T.T.ADADW	CA CT WINDER T T
HCV_K1_R1	THOMITADAGE	LIGVGSAVVS	FAIKWEYVLL	TIFTITIADADW	CACT TANKET T TO
HCV_K1_R2	PHŐNT ADAŐĀ	LYGVGSAVVS	FVIKWEYILL	T.FT.T.T.ADADW	CACT MINISTER
HCV_K1_R3	THÖMTADAÖX	LYGVGSAVVS	VVIRWEYVLL	TIFILLIADADO	CACLIMMT TT
HCV_K1_S1	THONT ADAOX	LYGVGSAVVS	FAIKWEYVLL	T.FT.T.T.DDDV	CA CT MANAT T TE
HCV_K1_S2	THÖNTADAÖA	LYGVGSAVVS	FVIKWEYILL	T.FT.T.T.ADADW	CACT WINDART T T
HCV_K1_S3	THOM TADA Ó A	LYGVGSAVVS	VVIRWEYVIII	T.FT.T.T.DDDV	CACT WMMT T T
HCV_L2	THOMIANAGA	LYGIGSAVVS	FVIKWEYVT.T.	TFT.T.T.DNDV	CACT MATTER T
HCV_N	THÖMTADAĞA	LYGIGSAVVS	FAIKWEYVVL	T.PT.T.ZDZDX	CACT MINISTER
HCV12083	PHŐNTADAŐĀ	LYGVSTNVTS	WVVKWEYIVL	MFT.VT.ADADT	CTCT.WILMET T
HCV1480	THOWIADLOX	LYGLSSSIVS	WAVKWEYIML	VFIJJADADT	COPCIT. TITTE
HCVPOLYP	THÖNTADAÖX	TAGIGSAAAS	FAIKWEYVVL	T.FT.T.T.ADADW	CA CT WIMET T
$\mathtt{HD}_{\mathtt{1}}$	THÖMAADAĞA	PAGIGSAAAS	FAIKWEYILL	TIFTITIANADW	CACT MANATE T
HPCCGAA	THÖNTADAÖĀ	LYGVGSSIAS	WAIKWEYVVL	I.FI.T.T.ADADW	CCCLMMMTTT
HPCFG	THOMIADAGA	LYGVGSAVVG	WALKWEFVVI.	VFI.T.T.ADADW	CTIAT MININT T T
HPCGENANTI	THÖMAADAĞA	LYGIGSAVVS	FAIKWEYILL	T.FT.T.T.ADADW	CA CT MANT T T
HPCGENOM	LHQNIVDVQY	LYGIGSAVAS	FAIKWEYVLL	T.FT.T.T.ADADX	CACIMMMIT T
HPCHUMR	LHQNIVDVQY	LYGIGSAVVS	FAIKWEYVLL	T.FT.T.T.ADARCV	CACTMMMTTT
HPCJ	<b>LHQNIVDVQY</b>	LYGIGSAVVS	IAIRWEYVLL	I.FI.I.I.ADARV	CACLWMMLLL
HPCJCG	LHRNIVDVQY	LYGIGSAVVS	FAIKWEYILL	T.FT.T.T.ADARV	CACLWMMLLL
HPCJK046	LHQNVVDVOY	LYGLSTSTVN	WAIKWEYVVL	TEL AL ADODA	CACLWMMLLI
HPCJK049	LHONIVDVOY	LYGISSGLVG	WATKWEEVEL	IFLLLADARV	CLALWIMLLI
HPCJTA		LYGIGSAVVS		TELLIADARY	CAATMWWFI
HPCJTB	LHONIVDVOY	LYGIGSAVVS	FVIKWEYIVL	TELLIADARY	CACLWMMLLI
нрскза	LHONIVDVOY	LYGTGSGMVG	WALKWETVIL	TELLLADARV	CACLWMMLLI
HPCPLYPRE	THONIADAOA	LYGVGSSTAS	WAIKWEYVVL	TETTTADABA	CVALWLILTI
HPCPOLP	LHONIVDVOF	MYGT.SDAT.TK	YIVRWEWVVL	TETTTETADARV	CSCLWMMLLI
HPCPP	THONIADAOA	LVGTGGAVVG	FAIKWEYILL	LFLLLADARV	CACLWMLILL
HPCUNKCD	THOMINDION	LVGTGGAVVS	LWIKMENTIPP	LFLPLADARV	CAWLWMMLLI
MKC1A	THOMINDADA	LVGTGGATATC	FAIKWEYIVL	LFLLLADARV	CACLWMMLLV
NDM59	THOMINDAGY	MVCI.CDXIMV	FAIKWEYILL	LFLPLADARV	CAWLWMMLLI
NZLI	THONTVDVQT	LVCVCCCMVC	YIVRWEWVVL	LFLLLADARV	CACLWMLILL
SA13	THOMINDAOA	LVCLCCCTVC	WALKWEFVIL	VFLLLADARV	CVALWLMLMI
Th580	THOMINDIOL	TACACCCTAC	WAVKWEYIVL	AFLLLADARI	CTCLWIMLLV
Type_3a CB		LYCVCCCATC	WAVKWEYVVL	MFLVLADARI	CTCLWLMLLV
TypeV D	LUCKITYDYCY	LIGVGSGMVG	WALKWEFVIL	IFLLLADRRV	CVALWLMLMI
VN004	THOMITMETON	LYGYGSGMVG	WALKWEFVIL	IFLLLADARV	CVALWLMLMI
VN004 VN235	THOMITADION	LYGVSTAVVS	WAMKWEYVVL	AFLVLADARV	CACLWLMFLV
VN235 VN405	THÖMTADTÖÄ	LYGLAPALVS	WAVRWEYVVL	AFLLLADARI	CACLWMVLLI
A14402	THÖMTADAÖA	LYGVSSAVVS	WAVKWEYIVL	AFLVLAVARV	CACLWLMFLV
	Dr				
DEDE	751				800
BEBE1	GOABAALEKL	VILHAASAAS	SNGLLYFILF	FVAAWCIKGR	AVPMVTYTLL
D89815	WÄNDENT	A ATMAYS A AG	AHGMLPFFMF	FCAVMAKGD	TATOCIA A VA DV
ED43type_4	PARMYTPINT	ININAASAAG	AOGFWYATLE	TOTUMENTO	TOTAL A A A SERVICE
HC_C2	<b>WANDWANDIND</b>	V V LINAAS VAG	VHGILSFLVF	TO A MY TROO	T TITLOTA A TEN 1932
HC_G9	SÄAEWWIENI	TATINAVETIAG	THGTVPFFFF	PCD DWVI.VCV	TOTA TOCIT IN SECURITY
HCU16326	<b>WANDWALDINE</b>	V V LINAAS VAG	AHGILSFTVF	FCDDWVTKGD	T 1270/77 A 32 A T 32
HCV_H_CMR	SOMEMATIENT	VILMAASLAG	THGLVSFLVF	FCFAWYT.KGD	しれんしい メススス かいん
HCV_J1	POWERVIENT	VILNAASLAG	TRGLVSFLVR	ECEVMANA CD	LITETO A A SERVICE
HCV_J483	HOWENWIENT	VVLNAASVAG	AHGILSFLVF	<b>FCDDWVTKGD</b>	T. A DC A A VA 13V
HCV_J8	GQAEAALEKL	IILHSASAAS	ANGPLWFFIF	FTAAWYLKGP	VVDVATVCIA.
			·		A AE AUTTOAM

HCV_JK1	707E77FE	1777 373 3 Green			
HCV_UKI	ACAEAADEND	VVLNAASVAG	AHGILSFLVF	FCAAWYIKGR	LVPGAAYAFY
HCV K1 R1	YOYENYI ENTE	VVLNAASVAG	AHGILSFLVF		LVPGAAYAFY
HCV_K1_R1 HCV_K1_R2	WOMENATION	VVLNAASLAG	VHGILSFLVF		LVPGAAYALY
HCV_K1_R2	ACARAMENT	VVLNAASVAG	AHGFLSFLVF		LVPGAAYAFY
	ACAEAALENL	VILNAASVAG	AHGILSFLVF		LVPGAAYAFY
HCV_K1_S1	ACARAALENL	VVLNAASLAG	VHGILSFLVF		LVPGAAYALY
HCV_K1_S2	AQAEAALENL	VVLNAASVAG	AHGFLSFLVF		LVPGAAYAFY
HCV_K1_S3	AQAEAALENL	VILNAASVAG	AHGILSFLVF	FCAAWYIKGR	LVPGAAYAFY
HCV_L2	AQAEAALENL	VVLNAASVAG	AHGILSFLVF	FCAAWYIKGR	LVPGAAYASY
HCV_N	ARAEAALENL	VALNAASVAG	AHGILSFLVF	FCAAWYIKGR	LVPGAAYAFY
HCV12083	STVEAAVERL	VVLNAASAAG	TAGWWWAVLF	LCCVWYVKGR	LVPACTYMAL
HCV1480	CQAEATCKNV	IVLNAAAAAG	NHGFFWGLLV	VCLAWHVKGR	LVPGATYLCL
HCVPOLYP	AQAEAALENL	VVLNAASVAG	AHGILSFLVF	FCAAWYIKGR	LVPGAAYAIY
HD_1	AQAEAALENL	VVLNAASLAG	THGILSFLVF		LVPGAAYALY
HPCCGAA	SQAEAALENL	VILNAASLAG	THGLVSFLVF		WVPGAVYALY
HPCFG	SQAEAAMENL	VMLNALSAAG	QQGYVWYLVA		LVPLITYGLT
HPCGENANTI	AQAEAALENL	VVFNAASVAG	MHGTLSFLVF		LVPGAAYALY
HPCGENOM	AQAEAALENL	VVLNAASVAD	AHGILSFLVF		LVPGAAYAFY
HPCHUMR	AQAEAALENL	VVLNSASVAG	AHGILSFLVF		LVPGATYALY
HPCJ	AQAEAALENL	VVLNAASVAG	AHGILSFLVF		LVPGAAYALY
HPCJCG	AQAEATLENL	VVLNAASVAG	AHGLLSFLVF		LVPGAAYALY
HPCJK046	GQAEAALENL	IVLNAASAAA	TRGWECFLLF	MCWAWYVRGR	
HPCJK049	SQAEAALENL	IVLNAISAAG	THGIWWSLVA		IFPIAVYSIV
HPCJTA		VVLNAASLAG	ADGILSFLVF		LVPGAAYALY
HPCJTB	AQAEAALENL	VVLNAASLAG	AHGILSFLVF	FCAAWYIKGR	
HPCK3A		VTLNAVAAAG	THGIGWYLVA	FCAAWYVRGK	
HPCPLYPRE	SQAEAALENL	VILNAASLAG	THGLVSFLVF	FCFAWYLKGK	WVPGAVYTFY
HPCPOLP	GQAEAALEKL	VVLHAASAAS	CNGFLYFVIF	FVAAWYIKGP	VVPLATYSLT
HPCPP	AQAEAALENL	VVLNAASMAG	AHGILSFLVF		LVPGAAYAFY
HPCUNKCD		VVLNAASVAG	AHGILSFIVE	FCAAWYIKGR	
MKClA		VVLNAASMAG	AHGILSFLVF	FCAAWYIKGR	
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NZLI		VTLNAVAAAG	THGIGWYLVA	FCAAWYVRGK	
SA13		IVLNAAAAAG	THGFFWGLLV	ICFAWHFKGR	
Th580		VVLNAASAAG	TAGWCWTLIF	LCCVWHVKGR	
Type 3a CB		VTLNAVAAAG	THGIGWYLVA	FCAAWYVRGK	
TypeV_D		VTLKAVAAAG	THGIGWYLVA		
VN004		IVLNAASAAS	CQGLLWGLIF		
VN235		IVLNAASAAS	SQGWIYCLVF	ICCAWHVRGR	
VN405		IVLNATSAAG	SQGWVWGVVF	ICCAWYIKGR	
	~		DQUIVIIGVVF	ICAAWYIRGR	AAPITTYAIL
	801				
BEBE1	GCWSFVLLLM	ALPHOAYALD	AAEOGOTGMA	LLIAITAFTI	850
D89815	GVWPLLLLLL	ALPPRAYAMD	REMVASCGGG	VFVGLALLTL	TPAYKILLSR
ED43type 4	GLWPCFLLLL	MLPERAYAYD	OEVAGSLGGA	IVVMLTILTL	SPICKVFLAR
HC C2	GVWPLLLLL	ALPPRAYAMA	REMAASCGGA	TAMMITTOTO	SPHYKLWLAR
HC G9	GMWPLLLLL	ALPORAYALD	OELAASCGAT	VETCI.AUT OT	SPIIKVFLAR
HCU16326	GVWPLLLLLL	ALPPRAYAMD	PEMANGCGAI	VFVGLVLLTL	SPYYKQYMAR
HCV H CMR	GMWPLLLLLL	ALPORAYATAD	TEVADECCCV	VLVGLMALTL	SPHYKVFLAR
HCV J1	GMWPLLLLL	ALPORAYATA	TEVANDCGGV	ATAGRAPTE	SPYYKRYISW
HCV J483	GVWPLLLLLI.	ALPPRAYAMD	PEMANGCGGV	VLVGLWALTL VLVGLVFLTL	SPYYKRCISW
HCV J8	GLWSFLLLVT.	ALPOODVALD	AAROGET.GT	ILVIISIFTL	SPYYKVFLTR
HCV JK1	GVWPLLT.T.T.T.	TI DDD Y A YWD	DEMY Y COOGS	VFVGLALLTL	TPAYKILLSR
HCV_JS	GVWPLT.T.T.T.	ALDDBARAMO	DEMY YOUGG	V F V GLALLTL	SPHYKAFLAR
HCV_K1_R1	GVWPI.T.T.T.T.T.	TIDDDAVAMD	DEMANCECCA	VFVGLALLTL	SPHYKVFLAR
HCV K1 R2	GVWPI,T,T,T,T,T	VI'DDDVAVWD	REMANDESCA	VFIGLALLTL	SPYYKVFLAK
HCV_K1_R3	GVWPI.T.T.T.T.	ST.DDD AVAM	DEMA ACCCC	VFVGLALLTL	SPHYKVVLAR
HCV K1 S1	GVWPI,T.T.T.T.T.	VI'DDDYAYW	REMANDEGGA	VFIGLMLLTL	SPHYKAFLAK
HCV K1 S2	GVWPT.T.T.T.T	AT.DDDAVAM	REMARKUGGV	VFVGLALLTL	SPYYKVFLAR
	CVWDI.T.T.T.T	WIND AND AND	REMAASCGGA	VFVGLALLTL	SPHYKVVLAR
HCV_L2	GVWPLLLLLL GVWPLLLLLL	DIEFKAIAMD	REMAASCGGA	VFIGLILLTL	SPHYKAFLAK
11C 4 _ 11C		THE THAT AME	QGMAASSGGT	VLVGLMLLTL	SPYYKVVLAR

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HCV_N GAWPLLLLL TLPPRAYAMD REMAASCGGA VFVGLALLTL SPYYKVFLAR
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     HCV1480 GVWPLLLVRL LRPHRALALD SSDGGTVGCL VLIVLTIFTL TPGYKKKVVL
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HPCPOLP GLWSFGLLL ALPQQAYAYD ASVHGQIGAA LLVLITLFTL TPGYKTLLSR
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HPCUNKCD GVWPLLLLL ALPARAYAMD REMAASCGGA VFVGLVLLTL SPYYKVFLAK
MKC1A GVWPLLLLL ALPOOAYAYD ASVHGOTGVA LLILITTETI. TDGYKULLSR
MKC1A GVWPLLLLM ALPARAYAMD REMAASCGGA VFVGLVLITL SPYYKVFLAK
NDM59 GLWPFCLLLL ALPQQAYAYD ASVHGQTGVA LLILITLFTL TPGYKILLSR
NZLI GLWSLALLVL LLPQRAYAWS GEDSATLGAG VLVLFGFFTL SPWYKHWIGR
SA13 GIWPLLLLLF LLPQRALALD SSDGGTVGCL VLTILTIFTL TPGYKKMVVL
Th580 GMWPILLVIL ALPQRAYAWD NSQAASLGVV ALLVLTIFTL SPMYKQLLTH
TYPE_3a_CB GLWPLALLVL MLPQRAYAWS GEDSATLGAG VLVLFGFFTL SPWYKHWIGR
TYPEV_D GLWSLALLVL LLPQRAYAWS GEDSATLGAG VLVLFGFFTL SPWYKHWIGR
VN004 QLWPLLLLIL ALPRRAYAFD SEQAASAGLL VLGLITIFTL TPAYKQLLIS
VN235 HLWPLLLLVL ALPRRAYAYD REQGASIGVV VIAAITIFTL TPAYKTMLVH
VN405 OLWPLLLIVL ALPRRAYAYN GEEAASLGMI ALVITTETT. TPAYKTMLVH
        VN405 QLWPLLLLVL ALPRRAYAYN GEEAASLGML AIVIITIFTL TPAYKTLLIS
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      HCV_J8 SVWWLSYMLV LAEAQIQQWV PPLEVRGGRD GIIWVAVILH PRLVFEVTKW
    HCV_JK1 LIWWLQYFIT RVEACLQVWV PPLNVRGGRD AIILLTCAVH SELIFDITKI
      HCV_JS LMWRLQYLIT RAEAHLQIWV PPLNIRGGRD AIILLMCAVH PELIFDITKL
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  HCV_K1_R2 LIWWLQYFIT RAEACLQVWI PPLNVRGGRD AIILLTCALH PELIFSITKI
  HCV_K1_R3 LIWWLQYFIT RAEAHLQVWI PPLNVRGGRD AIILLTCAVH SELVFEITKI
  HCV_K1_S1 LIWWLQYLIT RAEAQLQVWI PPLNVRGGRG AIILLTCVVH PELIFDITKI
  HCV_K1_S2 LIWWLQYFIT RAEACLQVWI PPLNVRGGRD AIILLTCALH PELIFSITKI
 HCV_K1_S3 LIWWLQYFIT RAEAHLQVWI PPLNVRGGRD AIILLTCAVH SELVFEITKI
      HCV_L2 LIWWLQYFIT RAEAHLQVWV PPLNVRGGRD AVILLTCAVY PELVFDITKL
       HCV_N LIWWLQYLIA RAEAHLHVWV PPLNVRGGRD AIILLTCAVH PELIFDITKL
   HCV12083 FIWWNQYFLA RAEAMVHEWV PDLRVRGGRD SIILLTCLLH PQLGFEVTKI
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   HCVPOLYP LIWWLQYYIT RAEALLQVWI PPLNVRGGRD AIILLTCVVH PELIFDITKL
    HD_1 LIWWLQYFIT RAEALLQVWI PPLNVRGGRD AIILLTCAVH PGLIFDITRL HPCCGAA CMWWLQYFLT RVEAQLHVWV PPLNVRGGRD AVILLTCVVH PALVFDITKL
       HPCFG LIWWNQYAIC RGEAALQVWV PPLLVRGSRD SVILLASLLY PSLIFDITKL
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HPCHUMR	LIWWLQYFTT	RAEADLHVWI	PPLNARGGRD	AIILLMCAVH	PELIFDITKL
HPCJ	TTMMTÖXTPT.T.	RAEAHLHMWI	PPLNVRGGRD	ATTI.T.ACAAU	DETTEDTENT
HPCJCG	TTMMTŐXETT.	RAEAHLOVWV	PPLNVRGGRD	TTT.T.TCAVE	DELTENTMET
HPCJK046	L TAMATOTE TW	HIENKTHAMA	PFLRVRGGRD	ATTLLTCVFH	DOLCOPUMBLE
HPCJK049	PIMMMÖLLTW	RCEAALQIWV	PPLLARGARD	GTTLLAGLEV	דשיידרוים זו זאס
HPCJTA	TTMMTŐXE.T.T.	RAEAHLCVWV	PPLNVRGGRD	ATTLLTCDAH	DET.TENTERT
HPCJTB	PTMMPÕXRTJ	RAEAHLCVWV	PPLNVRGGRD	ATTLLTCAAH	דעייד חקוד. זקו
нрскза	PTMMMÖXTTC	RCESALHVWV	PPLLARGGRD	GVILLTSLLV	DCI.TEDTTET
HPCPLYPRE	CTMMTŐXŁT.I.	RVEAQLHVWI	PPLNVRGGRD	AVTTTMCAVH	דעיידרושעו.זיים
HPCPOLP	L.T.MMT.C.X.P.T.T.	LAEAMVQEWA	PPMOVRGGRD	GTTWAVATEC	DCIMPDICIA
HPCPP	LIWWLQYLIT	RAEAHLOVWI	PPLNVRGGRD	AIILLTCAVH	POVVEDITAM
HPCUNKCD	FIWWLQYLIT	RTEAHLOVWV	PPLNVRGGRD	AIILLTCVVH	LEDITEDITATE
MKC1A	LIWWLQYLIT	RAEAHLOVWI	PPLNVRGGRD	AIILLTCAVH	PETTEDIAM
NDM59	SLWWLCYLLT	LGEAMIOEWV	PPMOARGGRD	GIIWAATMFC	EPHTEDITIVE
NZLI	LMWWNQYTIC	RCESALHVWV	PPLLARGSRD	GVILLTSLLY	PCI IEDIUMA
SA13	VIWWLQYFIA	RVEAFIHVWV	PPI-OVRGGPD	AIIMLTCLFH	PATCHERANCE
Th580	AIWWNQYMLA	RAEAMIHDWV	PDI-BABGGBD	AIILLTCLLH	PALGFEVIKI
Type_3a_CB	LIWWNQYTIC	RCESALOVWV	PPI.I.APGGRD	GVILLTSLLY	PHLGFEVIKI
TypeV D	LIWWNQYTIC	RCESALOVWV	PPI.I.APGGPD	GVILLTSLLY	PSLIFDITKL
VN004	MLWWIOYFIA	LTEAOLHOWV	PSI.I.VPCCPD	AVILLACLEH	PSLIFDITKL
VN235	FLWWNOYFIA	RSEALTOOWV	PST-PVPGGRD	AVILLTCLLH	PQLGFEVTKI
VN405	TLWWIOYYIA	RAEAMIYVWV	PSI-OVEGED	AVILLTCLLH	PSLGFDITKM
			TOTOTAL	AATDUICUU	PQLGFEVTKA
	901				
BEBE1	LLAILGPGYL	FRAAVMRTDV	FWD AMALT DM	CALVKQLAGG	950
D89815	LLSILGPLMV	LOASITEVEY	FUDACCITO	CALVROLAGG CMLVRKAAGG	KYVQVALITL
ED43type 4	LLAILGPLHT	LOASTITUTE	FVRAQGLIKA	CSLLRGVVYG	HYVOMAFVKL
HC_C2	LLAIFGPIMV	LOAGITKMDY	T ANYONIA VI	CMLVRKVAGG	KYFQMVVLKS
HC G9	MLAILGPLWT	LOASITIONE I	FUDAUCT TO	CMLVRKVAGG CMLVRKTAGG	HYVQMAFMKL
HCU16326	LLATEGPLMV	LONGTTDVOV	FUDACCITE	CMLVRKTAGG	QYVQMALLKL
HCV H CMR	LLATEGPLWT	LOAGITICVET	EADMOGT F DE	CMLARKVVGG CALARKIAGG	HYVQMVFMKL
HCV_J1	LLAVIGPLWI		LAKAÓGTTKT	CALARKIAGG	HYVQMAIIKL
HCV J483	T.T.ATT.GDI.MV	TOYCHADADA	FAKAÖGTPKT	CALARKMVGG	HYVQMAIIKL
HCV J8	T.T.ATT.CDAVT.	LVACIIDIDA	FVRAQGLIRA	CMLVRKVAGG	HYVQMAFMKL
HCV JK1	I.I.ATECDI.MV	TOYCLEDAN	FVRAHALLRV	CTLVKHLAGA	RYIQMLLITI
HCV JS	T.T.ATT.CDI.MV	TOYCLEDADA	FVRAQGLLRA	CMLVRKVAGG	HYVQMALMKL
HCV_K1_R1	VI.ATI.GPI.MV	TOYGLIKABA	FVRAQGLIRA	CMLVRKVAGG	HYVQMAFVKL
HCV K1 R2	T.VX TI.CDI.MT	TOYCLAKABA	FVRAQGVIRE	CILVRKVGGG	QYVQMAFMKL
HCV K1 R3	T.T.A TECOT.MS	LOAGITKMPY	FVRAQGLIRA	CMLVRKVAGG	HYVQMAFMKL
HCV K1 S1	MINITICPIMIZ	LOAGLIKVPY	FVRAQGLIRA	CMLVRKVAGG	HYVQMAFVKL
HCV_K1_S1	LANTI CDI MA	LOAGIAKVPD	FVRAQGVIRE	CILVRKVGGG	QYVQMAFMKL
HCV_K1_S2	TATECRIMO	LOAGITKMPY	FVRAQGLIRA	CMLVRKVAGG	HYVQMAFMKL
HCV_K1_33	LLAIFGPLMV	LOAGLIRVPY	FVRAQGLIRV	CMLVRKVAGG	HYVQMAFVKL
HCV N	LLAIFGPLMV	LOAGIIKMPY	FVRAQGLIRA	CMLVRKVAGG	HYVQMAFMKL
HCV12083	LIAILGPLMV	LQAGITRVPY	FVRAQGLIRA	CMLVRKVAGG	HYVQMAFMRL
	THANTABLET	TÖXSTTKABĀ	FVRAHILLRA	CLIVERIAGG	KVVONCT.T.DT.
HCV1480	LFGILGPLYL	LQHSLTKVPY	FLRARALLRL	CLLAKHLVYG	KYVQAALLHL
HCVPOLYP	TTAMPGBBMA	LQAVITKVPY	FVRAOGLIRA	CMINDKNAGG	HVT/OMAT MICT
HD_1	THATHGATIMA	LQAGITRVPY	FVRAHGLIRA	CMINDKNAGG	HVIOMA DMET
HPCCGAA	THYTEGETMY	TOASTITKALA	FVRVOGLLRT	CALARKTACC	LIVIOMA T T VT
HPCFG	TIMAPGETAP	IQAALTSTPY	FVRAHVLIRT	CMIJDESANCE	KVIIOMA III mii
HPCGENANTI	TIMITAPITATION	LQAGLTRIPY	FVRAOGLIRA	CMIVEKAAGG	HVVOMATMET
HPCGENOM	THATTIGPTIV	LQAGITRVPY	FVRAHGLIRA	CMITERMAGG	HVT/OMA DMUT
HPCHUMR	TIATIGHTMA	LQAGITRVPY	FVRAOGLIHA	CMLVRKVAGG	HVVOMA EMET.
HPCJ	TIMITIGATIAN	LQAGITAVPY	FVRAQGLIRA	CMLVRKVAGG	HYVOMA EMEY.
HPCJCG	TPTTTG5FWA	LQAGITRVPY	FVRAOGLIRA	CMINRKVAGG	HVIOMAEMET
HPCJK046	THALLGELLYL	LHASLLRVPY	YVRAHALIRT	CALVONVAGG	KVI/ON N TT.DN
HPCJK049	THATFGLFAT	LQASLVRVPY	FVRAHAVVRL	CILVENITGG	KVVOMVIT.T.AT.
HPCJTA	TUTATTGLFWA	LQAAITAMPY	FVRAOGLIRA	CMLVRKVAGG	HYVOMA EMET.
HPCJTB	THATHGLFWA	LQAAITAMPY	FVRAOGLIRA	CMLVRKVAGG	HYTOMA DMET.
HPCK3A	PINATGLFAF	IQATITATPY	FVRAHVLVRI	CMLVRSVMGG	KYROMTTI.CI.
HPCPLYPRE	LLAVFGPLWI	LQASLLKVPY	FVRVQGLLRF	CALARKMIGG	HYVOMVITKI.
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HPCPOLP LLAVLGPAYL LKGALTRVPY FVRAHALLRM CTMVRHLAGG RYVQMVLLAL
         HPCPP LLAILGPLMV LQAGLTQMPY FVRAQGLIRM CMLVRKAAGG HYVQMALMKL
    HPCUNKCD LLAIFGPLMV LQAGITRVPY FVRAQGLIRA CMLARKVVGG HYVQMVFMKL
         MKC1A LLAILGPLMV LQAGITRVPY FVRAQGLIRA CMLVWKAAGG HYVQMAFVKL
         NDM59 LLAMLGPAYL LRDALTRVPY FVRAHALLRL CTMVRHLAGG RYVQMALLAL
          NZLI LMAVLGPLYL IQATITTTPY FVRAHVLVRL CMLVRSVIGG KYFQMIILSI
           SA13 LLGILGPLYL LQYSLIKLPY FIRARALLRA CLLAKHLACG RYVQAALLHL
         Th580 LLAILAPLYI LQHSLLKVPY FVRAHILLRA CMFFRKVAAG KYVQACLLRL
 Type_3a_CB LIAVLGPLYL IQAAVTTTPY FVRAQVLVRL CMLVRSVMGG KYFQMIILSI
      TypeV_D LIAVLGPLYL IQASITATPY FVRAHVLVRL CMLVRSMMGG KYFQMIILSV
         VN004 LLALLGPLYL LQYSLLKTPY FVRAHILLRA CMFFRGMARG RYAQAILLRI
         VN235 LLALLGPLYL LQVSLLRVPY YVRAHALLRV CILVRRVAGG KYIQAALLKL
         VN405 ILALLGPLYI LQYSLLKTPY FVRAHILLRV CMFLRGVAGG KYVQAALLRL
         BEBE1 GKWTGTYIYD HLSPMSDWAA DGLRDLAVAV EPIVFSPMER KVIVWGAETT
       D89815 AALTGTYVYD HLTPLQDWAH VGLRDLAVAV EPVVFSAMET KVITWGADTA
 ED43type_4 RGLTGTYIYD HLTPMSDWPP YGLRDLAVAL EPVVFTPMEK KVIVWGADTA
         HC C2 AALTGTYVYD HLTPLRDWAH TGLRDLAVAV EPVVFSDMET KIITWGADTA
         HC G9 GAFAGTYIYN HLSPLQDWAH SGLRDLAVAT EPVIFSRMEI KTITWGADTA
    HCU16326 AALAGTYVYD HLTPLRDWAH TGLRDLAVAV EPVVFSDMET KVITWGADTA
   HCV H_CMR GALTGTYVYN HLTPLRDWAH NGLRDLAVAV EPVVFSRMET KLITWGADTA
       HCV_J1 GALTGTYVYN HLTPLRDWAH NGLRDLAVAV EPVVFSQMET KLITWGADTA
    HCV_J483 GALTGTYVYN HLTPLRDWAH AGLRDLAVAV EPVVFSDMET KVITWGADTA
       HCV J8 GRWTGTYIYD HLSPLSTWAA QGLRDLAIAV EPVVFSPMEK KVIVWGAETV
      HCV JK1 AALTGTYVYD HLTPLRDWAH SGLRDLVVAV EPVVFSDMET KIITWGADTA
       HCV_JS AALTGTYVYD HLAPLQHWAH TGLRDLAVAV EPVVFSDMET KIITWGADTA
  HCV_K1_R1 AELKGTSVYD HLTPLRDWAH TGLRDLAVAV EPVVFSDMEI KIITWGGDTA
  HCV_K1_R2 AALTGTYVYD HLTPLQDWAH TGLRDLAVAV EPVVFSDMET KIITWGADTA
  HCV_K1_R3 AALTGTYVYN HLTPLQDWAH TGLRDLAVAV EPVVFSDMET KIITWGADTA
  HCV_K1_S1 AELKGTSVYD HLTPLQDWAH TGLRDLAVAV EPVVFSDMEI KIITWGGDTA
  HCV_K1_S2 AALTGTYVYD HLTPLQDWAH AGLRDLAVAV EPVVFSDMET KIITWGADTA
  HCV_K1_S3 AALTGTYVYN HLTPLQDWAH TGLRDLAVAV EPVVFSDMET KIITWGADTA
       HCV_L2 AALTGTYVYD HLTPLRDWAH TGLRDLAVAV EPVVFSDMET KIITWGADTA
         HCV_N GALTGTYVYN HLTPLRDWAH AGLRDLAVAV EPVTFSDMET KIITWGADTA
    HCV12083 GAWTGTFVYD HLAPLSDWAS DGLRDLAVAV EPVIFSPMEK KIITWGADTA
     HCV1480 GRLTGTYIYD HLAPMKDWAA SGLRELTVAT EPIVFSAMET KVITWGADTA
    HCVPOLYP AGLTSTYVYD HLTPLQDWAH GGLRDLAVAV EPVVFSDMET KIITWGADTA
          HD_1 AALTGTYVYD HLTPLRDCRH AGLRDLAVAV EPVVFSAMET KIITWGADTA
HD_1
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GRWFNTYLYD
HLSPIQDWAA
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     HPCPOLP GRWTGTYIYD HLTPMSDWAA NGLRDLAVAV EPIIFSPMEK KVIVWGAETA
        HPCPP AALTGTYVYD HLTPLQDWAH AGLRDLAVAV EPVVFSDMET KIITWGAETA
   HPCUNKCD AALAGTYVYD HLTPLRDWAH TGLRDLAVAV EPVVFSDMET KVITWGADTA
        MKC1A AALTGTYIYD HLTPLRDWAH AGLRDLAVAV EPVVFSDMET KIITWGADTA
        NDM59 GRWTGTYIYD HLSPMSDWAA SGLRDLAVAV EPIIFSPMEK KVIVWGAETA
          NZLI GRWFNTYLYD HLAPMQHWAA AGLKDLAVAT EPVIFSPMEI KVITWGADTA
          SA13 GRLTGTYIYD HLAPMKDWAA SGLRDLAVAT EPIIFSPMET KVITWGADTA
        Th580 GAWTGTYIYD HLAPLSEWAS DGLRDLAVAV EPVIFSPMEK KIITWGADTA
Type_3a_CB GRWFNTYLYD HLAPMQHWAA AGLKDLAVAT EPVIFSPMEI KVITWGADTA
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TypeV_D	GRWFNTYLYI	HLAPMQHWAZ	AGLKDLAVAT	C EPVIFSPMET	KVITWGADTA
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VN235		N TITING THAY	IN÷IIPDT.AXXXX	7 2013 2013 2013 2013	* *** * *** * * * * * * * * * * * * *
VN405	GAWTGTYIYI	) HLTPLSDWAC	DGLRDLAVAV	EPVVFSPMEK	KIITWGADTA KVITWGADTV
• चत्रचत	1001				1050
BEBE1	ACGDITHGLE	VSARLGQEVI	LGPADGYTSK	GWRLLAPITA	**** ****
D89815		ADWINGTE		, CUIDI I N D. TON	77000
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HC_C2	CONTINUE	VOAKKGKELL	LICTUANCE. FRAN		77000000
HC_G9 HCU16326		ADMINICA	- ムほりないないかいな	משדכות דדם שבי	727 00000 000 0
		TOWKKGIET	LIGPADSLEGO	CINIDAL VIDEN	VOCOTTO OF T
HCV_H_CMR	TACOUTTIONS	ASWERGORIT	LGPANGMVQR	בשבת עד במושה.	323 O.O
HCV_J1	TICODITIONS	ASAKKGKETI	LC+PANGMORE	. CMDLLYDAWs	727 00
HCV_J483	***************************************	VOMERGINELE	LCIPADGT.FCA	COULT X DAMES	****
HCV_J8 HCV_JK1		VOMMUNICALI	I A SUALKE VITER		**
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HCV_US		A DUTTO TO THE	LICEPANCE LUCZO		****
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HCV_K1_R2		ADUNCATE	INTERNITION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF		7700000000
HCV_K1_R3	-100MTTDQTM	VDMKKGKEIL	しんきとないなをかだへ	CODITION	77000
HCV_K1_S1		ADMUKGKETT	LIGPANSIJECO	CIMPTIANTON	37000mm
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HPCCGAA	TODTTIONE	ASHKKRKETT	LGPAUSTEGO	CMDLLADIA	173 0 0 mm
HPCFG	TICODITIONS	VOAKKGUELL	L(+DΔI)CMM7CT	CHIDITANA	***
HPCGENANTI	THOUSE	TTTASTAMEN	LGPADDYKKM	CMDLLCDLCA	777 0000 00
HPCGENOM	ACGDITIGI.D	VSARRGREIL	LGPADSLEGR	GWRLLAPITA	YAQQTRGLFG
HPCHUMR	***************************************	ANNUALETT	LGPADSITION	CMOTTAINM	37000
НРСЈ	ACGDITIGLE	VSARRGREIL	LGPADSLEGR	GLRLLAPITA	YSQQTRGLLG
HPCJCG	ACGDITEGLE	VOARKGREIL	LGPADSLEGQ	GURLLAPITA	YSQQTRGLLG
HPCJK046	ACGDILAGIP	VSAPPONT.TT.	LGPADSFGEQ	GWRLLAPITA	YSQQTRGLLG
HPCJK049	ACGDILCGLP	VSAPLCKEUT	LGPADDVKDK	GWSLLAPITA	YAQQTRGLLG
HPCJTA	ACGDIILGLP	VSAPDCDETT	LGPADDYRSM	GWRLLAPITA	HAQQTRGLFG
HPCJTB	ACGDIILGLP	VSARDEDETT.	TCDADGIEGQ	GWRLLAPITA	YAQQTRGLLG
<b>НРСКЗА</b>	ACGDILCGLP	VSARI.GPEVIT.	TGPADSIEGO	GWRLLAPITA GWRLLAPITA	YXQQTRGLLG
HPCPLYPRE	ACGDIINGLP	VSARRGRETI.	TGEADDIKEM	GWRLLAPITA GWRLLAPITA	YAQQTRGLLG
HPCPOLP	ACGDILHGLP	VSARLGREUT.	LGDADGWVSK	GWRLLAPITA GWSLLAPITA	YAQQTRGLLG
HPCPP	ACGDIISSLP	VSARRGRELL.	I'GDYDGEDGO	GWSLLAPITA	YAQQTRGLLG
HPCUNKCD	ACGDIILALP	ASARRGKETT	LGDADGTEGO	GWRLLAPITA GWRLLAPITA	YSQQTRGLLG
MKC1A	ACGDIILGLP	VSARRGKETT.	T'GDADGT'EGO	GWRLLAPITA GWRLLAPITA	YSQQTRGLLG
NDM59	ACGDVLHGLP	VSARLGRETT.	L'GDYDGALGA	GWRLLAPITA	YSQQTRGLLG
NZLI	ACGDILCGLP	VSARLGREVI	I'GDVUUADYI 19K	GWRLLAPITA	YAQQTRGLLG
SA13	TICONTINUIT	VOARRGHEIF	(«HUANNTDE»		
Th580	ACGDILRGLP	VSARLGDLVL	LGPADDMPHG	GWKLLAPITA GWKLLAPITA	YAQQTRGVLG
Type_3a_CB	ACGDILCGLP	VSARLGREVL	LGPADDVDFM	GWRLLAPITA	YAQQTRGLVG
TypeV_D	TICODITICONE	APWIRKEAL	LGPADDYREM	CMDT.T.ADTMA	173 00mp or
VN004	THOUSE	AWWKKGMPPF.	LGPADDVKCK	CWDI.T.A DTma	173 AAMD ATT
VN235	LCODITINGUE.	APHERITAGE	LGPADDMKSM	CWPT.T.A DTTA	VCCOCHDGT t a
VN405	ACGDIISGLP	VSARRGNLIF	LGPADDTRDG	GWRLLAPITA	TCOOLKGPPG
				CHARLETTA	TWÖĞLKGÜAĞ
	1051				1100
BEBE1	AIVVSMTGRD	KTDQAGEIQV	LSTVTOSFLG	TSISGVLWTV 1	1100
	OTT TOTAL	グバグヘビでほんのへ	VSTAKOS FT A	ר ניייינויט מבוותואייוי	DITANACTOR .
ED43type_4	TIVTSLTGRD	TNENCGEVQV	LSTATOSFLG	TAVNGVMWTV	AHCIVED ALTO A
		<del></del> '			THOMOWETTS

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HPCGENANTI	RLVVLATATP	PGSVTVPHPN		EIPFYGKAIP	IETIKGGRHL
HPCGENOM	RLVVLATATP	PGSVTVPHPN	IEEVALSNTG		IEAIRGGRHL
HPCHUMR	RLVVLATATP	PGSVTVPHPN	IEEVALSNTG		IEAIRGGRHL
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SA13	RLVVLATATP	PGSVTTPHPN	IEEVALPSEG	EIPFYGRAIP	LALIKGGRHL
Th580	RLTVLATATP	PGSVTVPHPN	ITETALPTTG	EIPFYGKCIP	LEFIKGGRHL
Type_3a_CB	RLTVLATRTP	PGSTTVPHSN	IEEVALGSEG	EIPFYGKAIP	IALLKGGRHL
TypeV_D VN004	RUIVLATATP	PGSITVPHSN	IEEVALGSEG	EIPFYGKAIP	IALLKGGRHL
	DITENTATE	PGSVTVPHPN	ITESALPTTG	EIPFYGKAVP	LEYIKGGRHL
VN235 VN405	DI TOTAL A MARIAT P	PGSVTVPHPN	TTETALPSTG	EVPFYGKAIP	LECIKGGRHL
COFMA	VIIIATATATA	PGSVTVPHPN	TTEVALSSTG	EVPFYGKAIP	LEYIKGGRHL
	1401				
BEBE1		RT.AVAT.DOMO	T.NTA T/A VICTOR	DUCTTER	1450
D89815	IFCHSKKKCD	EL'DVKT GATG	T.MAVALIKGL	DVSIIPTQGD DVSVIPASGD	VVVVATDALM
ED43type_4	IFCHSKKKCD	ELAPOT.Tet.C	LWAVALIKGL	DVSVIPASGD	VVVVA'I'DALM
HC C2	IFCHSKKKCD	EL'VVKI'GNI'G	T.MYAVALIKGL	DVSVIPTSGD	VVVCATDALM
HC_G9	IFCHSKKKCD	El'VVKI'''	MANAIIKGL	DVSVIPTTGD	VVVVATDALM
<b></b>			VIMVAF I KGL	PASATELLED	VVVVATDALM

WCIII 6226	THOMOTORIS				
HCU16326	TECHSKKKCD	ELAAKLSGLG	LNAVAYYRGL	DVSVIPTSGD	VVVVATDALM
HCV_H_CMR	TICHSKKKCD	PLIMAKTIVATIG	INAVAYYRGI.	DUSUIDINGD	TATATORDATM
HCV_J1	TI CHOICKCD	PLAAKLVALG	VNAVAYYRGI.	DUSUIDEGED	TATATA MIDATA
HCV_J483	TI CHIDICACD	PHANTIGLIG	LNAVAYVRGI.	DWGWTDDTCD	777 777 77 PP
HCV_J8	Trensmach	ELLAAALKGMG	VNAVAYYRGI.	DVSVTDTACD	TATALA COLORA TATALA
HCV_JK1	TT CITOIGGCD	PLAAKTSATG	VNAVAYYRGI.	DUCUTDECCD	TARRES MENT NO.
HCV_JS	TLCUSYVYCD	ELAAKUSTLG	LNAVAYYRGI.	DUCUTDECCD	TREET TO THE TARREST
HCV_K1_R1	TICHTOUNCD	PHARKINGHG	LNAVAYYRGI.	DVSVTDVSCD	TATATA
HCV_K1_R2	TICITOTACCD	PLAAKTSGTG	INAVAYVRGI.	Direitanacan	TITITITI TO THE STATE
HCV_K1_R3	TIMITOVIVCD	LLATKLSALG	VNAVAYYRGI	DUSUIDEGM	TANATA CONTRACTOR
HCV_K1_S1	TI CHOICKCD	БПААКПРСТС	LNAVAYYRGI	DUSUIT DA CCD	THURSTAND
HCV_K1_S2	IFCHSKKKCD	ELAAKLSGLG	INAVAYYPGI.	DACATEVECE	VVVVATDALM
HCV_K1_S3	IFWHSKKKCD	ELATKLSALG	VNAVAVVPCI.	DARATEMENT	VVVVATDALM VVVVATDALM
HCV_L2	IFCPSKKKCD	ELAAKLSALG	TNAVAVVPCI.	DASATETECE	VVVVATDALM VVVVATDALM
HCV N	IFCHSKKKCD	ELAAKUSGUG	TNAVAVVDCT	DVSVIPISGD	VVVVATDALM VVVVATDALM
HCV12083	IFCHSKKKCD	ELAGKLKSLG	LMAUNEVECU	DVSVIPISGD	VVVVATDALM VVVCATDALM
HCV1480	IFCHSKKKCD	ELAKOLTSLG	TIMANAL TEGA	DVSVIPISGD	VVVCATDALM VVVCSTDALM
HCVPOLYP	IFCHSKKKCD	ELAAKT.SGLG	LNAVAYYRGL	DVAVIPATGD	VVVCSTDALM
HD 1	IFCHSRKKCD	ELAAKT.SGLG	TMAVALIRGE	DASATALED	VVVVATDALM VVVVATDALM
HPCCGĀA	IFCHSKKKCD	EL'VAKL'AVI'G	INAVAYYRGL	DVSVIPTSGD	VVVVATDALM
HPCFG	VECHSKERCD	ELASKI DOMO	IMAVAITRGL	DASATLEED	VVVVSTDALM
HPCGENANTI	IFCHSKKKCD	ELVAKICATO	VNAVAFYRGL	DVSVIPVSGD	VVVCATDALM
HPCGENOM	TECHSKKKCD	ELVARIORIO	IHAVAYYRGL	DVSVIPASGN	VVVVATDALM
HPCHUMR	TECHSKKKCD	ELWAYTISSTG	LNAVAYYRGL	DVSVIPSSGD	VVVVATDALM
HPCJ	TECHSKKKCD	ELVANT CALC	INAVAYYRGL	DVSVIPTIGD	VVVVATDALM
HPCJCG	TECHSKKKCD	PLAAKUSALG	INAVAYYRGL	DVSVIPASGD	VVVVATDALM
HPCJK046	TECHERRACD	ETAAVIIGEG	LNAVAYYRGL	DVSVIPTSGD	VVVVATDALM
HPCJK049	TECHEKKKCD	ELVANOTAGE	LNAVAFYRGV	DVSVIPTSGD	VVVCATDALM
HPCJTA	TECHSKKKCD	ELANGLISLG	VNAVAFYRGL	DVSVIPTQGD	VVVCATDALI
HPCJTB	TECHORARACD	ELAAKLSGLG	INAVAYYRGL	DVSVIPTSGD	VVIVATDALM
нрскза	TECHSKKKCD	ELIAAKLSGLG	INAVAYYRGL	DVSVIPTSGD	WIACTAVVV
HPCPLYPRE	TECHOKKKCD	RMASKLRGMG	LNAVAYYRGL	DVSVIPTTGD	VVVCATDALM
HPCPOLP	TECHONONO	ELAAKLVALG	INAVAYYRGL	DVSVIPTSGD	VVVVATDALM
НРСРР	TECHSKKKCD	ELAAALRGMG	LNAVAYYRGL	DVSVIPTQGD	VVVVATDALM
HPCUNKCD	TT. CHOICHCD	ELIAAKUSALG	VNAVAYYRGI	DVSTTDTSCD	TATATAMENT
MKC1A	TECHSKKKCD	ELAAKLSGLG	LNAVAYYRGL	DVSVIPTSGD	VVVVATDALM
NDM59	TECHOVIVED	ELAAKLSALG	VNAVAYYRGI.	DVSTTDTSCD	TARAMANTARA
NZLI	TECHSKKKCD	ELSAALRSMG	LNAVAYYRGL	DVSVIPTQGD	VVVVATDALM
SA13	TECUSYVYCD	PIASKTKGMG	LNAVAYYRGI	DVSVT princip	TATACON CONTRACTOR
Th580	TECHSKKKCD	ELAKQLTSQG	VNAVAYYRGL	DVAVIPATGD	VVVCSTDALM
Type_3a CB	TECHSKKKCD	FLSKÖLTSFG	LNAVAFYRGV	DVAVIDTECT	TATION TO A T M
	TECHSKKKCD	BLASKLRGMG	LNAVAVVDCT.	DMGMT DMMGD	******
TypeV_D	TECHSKKKCD	EIASKLRGMG	LNAVAYYRGI.	DMGMT DWWOD	TITITION OF THE
VN004 VN235	Trentine	PTRVOTARIC	TNAVAEABGA	DUGUTDECAL	7 TT TT 7 CT TT TT TT TT TT TT TT TT TT TT TT TT
	TI CHOICICD	PTHYOTKITG	LNAVAFYRGV	DVSVTDTAGD	TATALON COLORS AND
VN405	IFCHSKKKCD	ELAKQLTSLG	LNAVAFYRGV	DVSVIPTSGD	VVVCATDALM
DEDE	1451				1500
BEBE1	TGYTGDFDSV	IDCNVAVTQV	VDFSLDPTFT	ITTQTVPQDS	VCDCCDDCD
D89815	TOPIODIDOV	TDCMICATOL	VDESLIDETET	T Europrotein a T	MODDOODOO
ED43type_4	TOLIGHEDSA	TOCKIZATOL	VDFSLDPTFS	TETTTTTDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	VCDCCDDCDM
HC_C2	TOLIGHTDDA	TOCKLCATOL	VDFSLDPTFT	$\tau$	MODOODDOO
HC_G9	1GT IGD LDD A	TDCMICAAOL	VDFSLDPTFS	TRTSTVDODa	MCDCCCDDCCD
HCU16326	TOTIGOTOSV	TDCMICATOL.	VDFSLDPTFT	T E $T$ $T$ $T$ $T$ $T$ $T$ $T$ $T$ $T$ $T$	TIODOODOOD
HCV_H_CMR	TOTIGOTOSV	TDCMICATOL	VUESTIDETET	TRTTTTTTTTTT	MODERANDE
HCV_J1	TGTTGDTDSV	TDCMTCATOL	VDFSLDPTFT	TETTTT.DODX	Managamana
HCV_J483	TOT IGDEDS A	TDCMTCATOL	VDFSLDPTFT	ͳϜͲͲͲ℧ϷϴϦϫ	VCDCODDCDM
HCV_J8	TOTIODEDS A	TDCMANASOT	VDFSLDPTFT	ͳͲͲΩͲϞͿϷΩϦϪ	MCDCCDDCDM
HCV_JK1	TOTIONEDSA	TDCM.LCA.LO.L.	VDFSLDPTFT	TETTTI DODA	MCDCCDDCDM
HCV_JS	TOT IGDEDS V	TDCMT.CATOT.	VDFSLDPTFT	ͳΕͲͲͲΫϽϽΛͻͻ	WCDCODDCDM
HCV_K1_R1	TGT TGDT D2 A	IDCMICATOL	VDFSLDPTFT :	ͳΕͲͲͲͳͿϽϹϹϦ	VCDCODDADM
HCV_K1_R2	TGFTGDFDSV	IDCNTCVTOT	VDFSLDPTFT	╌╴╸╸╸ ӀᢄೡೡೡѶҏѺӷℷѧ	ACUSONKOKI.
		<del>-</del> -		V QDA	* OKOČKKOK I

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HCV_K1_R3 TGYTGDFDSV IDCNTCVIQT VDFSLDPTFT IETTTVPQDA VSRSQRRGRT
  HCV_K1_S1 TGYTGDFDSV IDCNTCVTQT VDFSLDPTFT IETTTVPQDA VSRSQRRGRT
  HCV_K1_S2 TGFTGDFDSV IDCNTCVTQT VDFSLDPTFT IETTTVPQDA VSRSQRRGRT
  HCV_K1_S3 TGYTGDFDSV IDCNTCVIQT DDFSLDPTFT IETRTVPQDA VSRSQRRGRT
      HCV_L2 TGYTGDFDSV IDCNTCVTQT VDFSLDPTFT IETTTVPQDA VSRTQRRGRT
       HCV N TGYTGDFDSV IDCNTCVTQT VDFSLDPTFT IETTTVPQDA VSRSQRRGRT
   HCV12083 TGYTGDFDSV IDCNVAVTQV VDFSLDPTFS IETTTVPQDA VSRSQRRGRT
    HCV1480 TGFTGDFDSV IDCNSAVTQT VDFSLDPTFT IETTTVPQDA VSRSQRRGRT
   HCVPOLYP TGFTGDFDSV IDCNTCVTQT VDFSLDPTFT IETTTVPQDA VSRSQRRGRT
        HD_1 TGYTGDFDSV IDCNVCVTQT VDFSLDPTFT IETTTVPQDA VSRSQRRGRT
    HPCCGAA TGFTGDFDSV IDCNTCVTQT VDFSLDPTFT IETTTLPQDA VSRTQRRGRT
       HPCFG TGYTGDFDTV IDCNVAVEQY VDFSLDPTFS IETRTVPQDA VSRSQRRGRT
HPCGENANTI TGFTGDFDSV IDCNTCVTQT VDFSLDPTFT IETTTMPQDA VSRSQRRGRT
   HPCGENOM TGFTGDFDSV IDCNTCVTQT VDFSLDPTFT IETTTVPQDA VSRSQRRGRT
    HPCHUMR TGYTGDFDSV IDCNTCVTQT VDFSLDPTFT IETTTVPQDA VSRSQRRGRT
        HPCJ TGFTGDFDSV IDCNTCVTQT VDFSLDPTFT IETTTVPQDA VSRSQRRGRT
     HPCJCG TGFTGDFDSV IDCNTCVTQT VDFSLDPTFT IETTTLPQDA VSRAQRRGRT
  HPCJK046 TGYTGDFDSV IDCNVAVTQI VDFSLDPTFS IETTTVPQDA VARSQRRGRT
HPCJK049 TGYTGDFDSV IDCNVAVEQY VDFSLDPTFS IETHTVPQDA VSRSQRRGRT
HPCJTA TGYTGDFDSV IDCNTCVTQT VDFSLDPTFT IETTTVPQDA VSRSQRRGRT
     HPCJTB TGYTGDFDSV IDCNTCVTQT VDFSLDPTFT IETTTVPQDA VSRSQRRGRT
     HPCK3A TGFTGDFDSV IDCNVAVEQY VDFSLDPTFS IETCTAPQDA VSRSQRRGRT
 HPCPLYPRE TGYTGDFDSV IDCNTCVTQT VDFSLDPTFT IETITLPQDA VSRTQRRGRT
    HPCPOLP TGFTGDFDSV IDCNVAVTQV VDFSLDPTFT ITTQTVPQDA VSRSQRRGRT
HPCPOLP TGFTGDFDSV IDCNVAVTQV VDFSLDPTFT ITTQTVPQDA VSRSQRRGRT
HPCPP TGYTGDFDSV IDCNTCVTQT VDFSLDPTFT IETTTVPQDA VSRSQRRGRT
HPCUNKCD TGFTGDFDSV IDCNTCVTQT VDFSLDPTFT IETTTVPQDA VSRSQRRGRT
MKC1A TGYTGDFDSV IDCNTCVTQT VDFSLDPTFT IETTTVPQDA VSRSQRRGRT
NDM59 TGYTGDFDSV IDCNVAVTQV VDFSLDPTFT ITTQTVPQDA VSRSQRRGRT
NZLI TGFTGDFDSV IDCNVAVEQY VDFSLDPTFS IETTTVPQDA VSRSQRRGRT
SA13 TGFTGDFDSV IDCNVAVTQV VDFSLDPTFS IETTTVPQDA VSRSQRRGRT
Th580 TGYTGDFDSV IDCNVAVTQV VDFSLDPTFS IETTTVPQDA VSRSQRRGRT
TYPE_3a_CB TGYTGDFDSV IDCNVAVEQY VDFSLDPTFS IETTTVPQDA VSRSQRRGRT
TYPEV_D TGFTGDFDSV IDCNVAVEQY VDFSLDPTFS IETTTAPQDA VSRSQRRGRT
VN004 TGYTGDFDSV IDCNVAVTQV VDFSLDPTFS IETTTVPQDA VSRSQRRGRT
VN235 TGYTGDFDSV IDCNVAVTQI VDFSLDPTFS IETTTVPQDA VSRSQRRGRT
VN405 TGYTGDFDSV IDCNVSVTQV VDFSLDPTFS IETTTVPQDA VSRSQRRGRT
       VN405 TGYTGDFDSV IDCNVSVTQV VDFSLDPTFT IETTTMPQDA VSRSQRRGRT
      BEBE1 GRGRLGIYRY VSSGERASGM FDTVVLCECY DAGAAWYELT PAETTVRLRA
D89815 GRGRRGIYRF VTPGERPSAM FDSSVLCECY DAGCAWYELT PAETSVRLRA ED43type_4 GRGRLGTYRY VTPGERPSGM FDTAELCECY DAGCAWYELT PAETTTRLKA
      HC_C2 GRGRRGIYRF VTPGERPSGM FDSSVLCECY DAGCAWYELT PAETSVRLRA
HC_G9 GRGKHGIYRY VSPGERPSGM FDSVVLCECY DAGCAWYELT PAETTVRLRA
  HCU16326 GRGRAGIYRF VTPGERPSGM FDSSVLCECY DAGCAWYELT PAETSVRLRA
 HCV_H_CMR GRGKPGIYRF VAPGERPSGM FDSSVLCECY DAGCAWYELM PAETTVRLRA
     HCV_J1 GRGKPGIYRF VAPGERPSGM FDSSILCECY DTGCAWYELT PAETTVRLRA
  HCV_J483 GRGRSGIYRF VTPGERPSGM FDSSVLCECY DAGCAWYELT PAETSVRLRA
HCV_J8 GRGRLGVYRY VSSGERPSGM FDSVVLCECY DAGAAWYELT PAETTVRLRA
    HCV_JK1 GRGRGGIYRF VTPGERPSGM FDSSVLCECY DAGCAWYELT PAVTSVRLRA
     HCV_JS GRGRGGIYRF VTPGERPSGM FDSSVLCECY DAGCAWYELT PAETSVRLRA
 HCV_K1_R1 GRGRRGIYRF VTPGERPSGM FDSSVLCECY DAGCAWYELT PAETSVRLRA
 HCV_K1_R2 GRGRAGIYRF VTPGERPSGM FDSSVLCECY DAGCAWYELT PAETSVRLRA
 HCV_K1_R3 GRGRRGIYRF VTPGERTSGM FDSSVLCECY DAGCAWYELT PAETSVRLRA
 HCV_K1_S1 GRGRRGIYRF VTPGERPSGM FDSSVLCECY DAGCAWYELT PAETSVRLRA
 HCV_K1_S2 GRGRAGIYRF VTPGERPSGM FDSSVLCECY DAGCAWYELT PAETSVRLRA
 HCV_K1_S3 GRGRRGIYRF VTPGERTSGM FDSSVLCECY DAGCAWYELT PAETSVRLRA
     HCV_L2 GRGRGGIYRF VTPGERPSGM FDSSVLCECY DAGCAWYELT PAETTVRLRA
      HCV_N GRGRGGIYRF VTPGERPSGM FDSPVLCECY DAGCAWYELT PAETSVRLRA
  HCV12083 GRGKPGVYRF VSQGERPSGM FDTVVLCEAY DTGCAWYELT PSETTVRLRA
   HCV1480 GRGRHGIYRY VSSGERPSGI FDSVVLCECY DAGCAWYDLT PAETTVRLRA
  HCVPOLYP GRGRRGIYRF VTPGERPSGM FDSSVLCECY DAGCAWYELT PAETSVRLRA
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HD_1	GRGRMGIYRF	' VTPGERPSGM	FDSSVLCESY	DAGCAWYELT	PAEASVRLRA
HPCCGAA	OKOKE GIIKE	VAPGERPSGM	FDSSVICECV	<b>しりいしょうしょうしょうしょうしょうしょうしょうしょうしょうしょうしょうしょうしょうし</b>	
HPCFG	GKGKFGTIKE	VIPGERPSGM	FDSVVLCECY	DAGCGWYDt.C	COLUMNIA VOL.
HPCGENANTI	DIGITAGITAE	ATEGERESGW	FDSSVLCECY	DAGCAWVET.4	את דתונטתים אם
HPCGENOM	GKGKEGIIKE	VIPGERPSGM	FDSSVICECY	DACCAMVELT	DARMING TO T
HPCHUMR	GRGRRGIYRF	VTPGERPSGM	FDSSVICECY	DAGCAWIELI	PAETIVRLRA
HPCJ	GRGRAGIYRF	VTPGERPSGM	FDSSVI.CECV	DECCAMIELI	PAETSVRLRA PAETSVRLRA
HPCJCG	GRGRSGIYRF	VTPGERPSGM	EDGGATCECT	DAGCAWYELT	PAETSVRLRA
HPCJK046	GRGKPGVYRY	VSOGERDSOM	EDGRAM CENT	DAGCAWYELT	PAETSVRLRA PAETTVRLRA
HPCJK049	GRGKSGTYRY	VSDCEDBCCM VSQCEDBCCM	EDIAAP CEGA	DIGAAWYELT	PAETTVRLRA
HPCJTA	GRGRGGTVDE	VSPGERPSGM	FDSVVLCECY	DAGCAWYELT	PSETTVRLRA
HPCJTB	GPGPGGTVPF	VTPGERPSGM	FDSSVLCECY	DAGCAWYELT	PAETTVRLRA
нрскза	CDCDI CITATO	VTPGERPSGM	FDSSVLCECY	DAGCAWYELT	PAETTVRLRA
HPCPLYPRE	CRCKDGIVE	VTPGERPSGM	FDSVVLCECY	DAGCSWYDLQ	PAETTVRLRA
HPCPOLP	GEGELTE	VAPGERPSGM	FDSSVICECV	DACCAMOUT I	DADOMESTA
	GKGKTGTIKI	VSTGERASGM	FDSVVICECY	ከአርአ አመሪኮ፣ ጥ	DADOMETER
HPCPP	CKGKGGTIKE	VIPGERPSGM	FDSSVLCECY	<u> </u>	DARMOTTOTON
HPCUNKCD	GKGKAGTIKE	VTPGERPSGM	FDSSVLCECY	DACCAMVELT	DARMOTTOTA
MKC1A	GKGKGGTIKE	VTPGERPSGM	FDSSVt.CECV	DACCAMVELT	DARMOTOTA
NDM59	GKGKTGTIKI	VSTGERASGM	FDSVVLCECY	DACA AMVET.M	Denmara
NZLI	GKGKTGTAKA	VASGERPSGM	FDSVVLCECY	DAGCGWVDIA	DA Emmana na
SA13	GEGENGTIKI	VSSGERPSGI	FDSVVLCECY	DAGCAMVDI.T	DAROMINATOR
Th580	GRGKPGVYRF	VSQGERPSGM	FDSVVLCEAY	DTCCAWVELT	DARMINATA
Type_3a_CB	GRGREGITRY	VAPGERPSGM	FDSVVICECY	DAGCGWVDIA	
TypeV_D	GRGRLGTYRY	VAPGERPSGM	FDSVVLCECY	DAGGEMADIO	PAGIIVKLKA
VN004	GRGKHGVYRY	VSQGERPSGM	FDSVILCEAV	DAGCOMINEL	PAETTVRLRA
VN235	GRGKPGVYRY	VSQGERPSGM	FDTVAT.CEAV	DIGCAMIELL	PAETTVRLRA
VN405	GRGKHGVYRY	VSQGERPSGI	EDIANT CENA	DUGCAWYELT	PSETTVRLRA
			TOTAMET	DIGCWATELT.	PSETTVRLRA
	1551				
BEBE1	_	ODHT.PRWPATZ	EMOT MITTON	TT	1600
D89815	VI.NTPGI.DVC	QDHLEFWEAV	FIGLIHIDAH	FLSQTKQAGE	GFPYLVAYQA
ED43type 4	VEDTECT.DVC	QDHLEFWESV	FIGLIHIDAH	FLSQTKQAGD	NFPYLVAYQA
HC C2	VI.NTPGI.DVC	QDHLEFWESV	FIGLIHIDGH	FLSQTKQSGE	NFPYLVAYQA
HC_G9	VI.NTPCI DIC	QDHLEFWESV	FTGLTHIDAH	FLSQTKQAGD	NFPYLVAYQA
HCU16326	VI NUDGI DVG	QDHLEFWESV	FIGLTHIDAH	FLSQTKQSGE	NFPYLVAYQA
HCV H CMR	THUTEGREVC	QUHLEFSEGV	FTGLTHTDAH	RLSOTRONCE	NTDDWT trateon
HCV_H_CMR	TIMITEGREAC	ODHTELMEGA	FTGTTHTDAH	FT.COTROCOR	ATTITUTE TER TER
	TIMIPGUPVC	CDHTRLMEGA	FTGLTHTDAH	FI.COTYOCCE	ATTEMATER TO TAKE
HCV_J483	THITTEGUEVC	ODHTREMESA	FTGLSHTDAH	FI.COTTONON	ATTIONET TEN TEN
HCV_J8	TIMIEGREAC	ODUTELMEVA	FTGLTHTDAH	FLSOTROGGE	MEN VI MIN VAIN
HCV_JK1	THMIPGHPVC	OAHTERMESA	FTGLTHTDAH	FLSOTFOACE	MEDUTION
HCV_JS	THMIEGHEAC	ODHUEFWESV	FTGLTHTDAH	ないなのではつなべい	ATTITUTE TERROR
HCV_K1_R1	THMILEGRAPEC	ODHTERMEGA	FTGLTHTDAH	PT.SOTKONGE	NT DVT 173 1703
HCV_K1_R2	THRIEGHEAM	ODUTE LAFRA	FIGLTHIDAH	FLSOTROAGD	NTDDVT 173 1703
HCV_K1_R3	THRIPGUPVC	ODDITERMESA	FTGLTHTDAH	FI.COTTO ACD	ATTEMPT TENTED
HCV_K1_S1	THATEGUELC	CDUTERARGO	PTGLTHTDAH	ましなし かんない しょうしょ しょうしゅう	ATT DUT TENTED T
HCV_K1_S2	THATEGUEVA	ODUTER MESA	FIGLTHIDAH	FLSOTKODGD	NEDVISIANA
HCV_K1_S3	THATEGUEVC	CDUTELMERA	F1G1.THTDAH	RI.COTROACD	MIDDUT TIRTOR
HCV_L2	THMIEGHEAC	COUPELMERA	FIGUMETDAR	RI-COTRONOD	MIDDLE TENTON
HCV_N	THATEGREAC	CDUPPERMESA	F.I.(+I).THTDAH	TI.COTTONO	MIDDAY TENTOS
HCV12083	YMNTPGLPVC	QDHLEFWEGV	FTGT.THTDAH	FI.CUTVOAGD	NEPILVAYQA
HCV1480.	YLNTPGLPVC	OEHLEFWEGV	FTGI.TMIIDAU	MICONVOCA	NFAYLVAYQA
HCVPOLYP	YLNTPGLPVC	QDHLEFWESV	ELCI'LDILDVII	PI COMPOS CE	NALATONA
HD 1	YLNTPGLPVC	ODHIJERWEST	EAGT.WILLDWAR	FLOOTKQAGE	NEPYLTAYQA
HPCCGAA	YMNTPGLPVC	ODHI GEWEGA	* TOUTUTDAH	r-LSQTKQAGD	NFPYLVAYQA ·
HPCFG	YI,STPGI.DVC	QDHLGFWEGV	TIGHTHIDAH	TLSQ'TKQSGE	NFPYLVAYQA
HPCGENANTI	VI.NTPGI.DVC	QDHLDFWERV	FIGUTHIDAH	FLSQAKQQGL	NFAYLVAYQA
HPCGENOM	THATEGUEAC	COUPERMESA	FTGLTHTDAH	FI.COTROACD	MEDUT TINGS
HPCHUMR	THUIPGHPVC	ODEPERMEGA	FIGUTHTDAM	RI.COTROACD	MEDUT ITALIA
несномк несј	THATEGUEAC	ODETREMESA	F.I.GI'LH LDVH	FI.COTRONO	MEDUT TINTON
	TIMIPOUPVC	ODUTERMESA	FTGLTHIDAH	FLSOTROACD	ATPOVE TEN WOR
HPCJCG	THMIFGHAC	ODUTERMESA	FTGLTHIDAH	FLSOTROACD	NT.DVT.VAVAA
НРСЈК046	TUNTAGPAAC	QDHLEFWEAV	FTGLTHIDAH	FLSQTKQGGB	NFAYLVAYQA

IIDG TYA A A					
HPCJK049	YLSTPGLPVC	QDHLEFWEGV	FTGLTHIDA	I FLSQTKQQGL	NFPYLTAYQA
HPCJTA		· COMPORABOA	* P" 133 .'  H 1 17A1	1 DT COMBOAN	***********
HPCJTB			HILLIAN TO AL	T DT.COMMON OR	
НРСКЗА		· ADDTIDTIARD A	PULSION HIDAT	「 DT.Cへ でひへ 3 ペナ	1777.0177.0000
HPCPLYPRE			P"I(+I, I'H T D Δ T	T DT.COMEAGA	177
HPCPOLP			- K"IK4I.'I'H T DAT		ATT
HPCPP			F"IX II II'II TDAT		\$777777
HPCUNKCD			FTGGGGTHTDAT	「 足しなりかない スペロ	3777737777777777
MKC1A	T THE T L O THE V C		PURSUIN TO A C		377777
NDM59	TIMETONEVC		PTICAL TIPAT		37777 3 2 cm 2 cm
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SA13		ODDLEDE WRIGO	בות כדו ואיני ונוויו וייש		377 Carana
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VN235		COUTER MEGA	ם על כוד איניאא:או״א	PI.COMMOGRA	37773 7 777 777 777 777
VN405	AFMLbGFbAC	QDHLEFWEGV	FTGLTHIDAH	LLSQTKQGGE	MENATORION
				51160011	MENTHANDA
	1601				1650
BEBE1	TVCARAKAPP	PSWDVMWKCL	IRLKPTLVGP	TPLLYRLGSV	1650 TNEVTLTHPV
D89815	TVCARAKAPP	PSWDQMWKCL	IRLKPTLHGP		QNEVTLTHPI
ED43type_4	TVSAKVWLAP	PSWDTMWKCL	IRLKPTLHGP		QNEVVLTHPI
HC_C2	TVCARAQAPP	PSWDQMWKCL	IRLKPTLHGP	TPLLYPLGAV	QNEVTLTHPI
HC_G9	TVCARAKAPP	PSWDQMWKCL	IRLKPTLTGA	TPI.I.VPI.CCV	QNEITLTHPI
HCU16326	TVCARAQAPP	PSWDEMWRCL	IRLKPTLHGP		QNEVTLTHPI
HCV_H_CMR	TVCARAQAPP	PSWDQMWKCL	IRLKPTLHGP	TPI.I.VPI.CAV	QNEVTLTHPI
HCV_J1	TVCARAQAPP	PSWDQMWKCL	IRLKPTLHGP	TPI.I.VPI.CAT	QGEVTLTHPY
HCV_J483	TVCARAQAPP	PSWDQMWKCL	IRLKPTLHGP	TPLLYRLGAV	OMERICA CARD
HCV_J8	TVCARAKAPP	PSWDVMWKCL	TRLKPTLTGP	TDI.I.VDI.CAV	TNEVTLTHPI
HCV_JK1	TVCARAQAPP	PSWDQMWKCL	IRLKPTLHGP	TPILIVDI CATA	INEVILITATION
HCV_JS	TVCARAQASP	PSWDQMWKCL	TRI-KPTT-HCP	TPLLYRLGAV	QNEVILTHPI
HCV_K1_R1	TVCARAQAPP	PSWDQMWKCL	TRIKPTIHOD	TPLLYRLGAV	OMENTETHEI
HCV_K1_R2	TVCARAQAPP	PSWDQMWKCL	TRI-KPTT-HGD	TPLLYRLGAV	ONDALPITHEI
HCV_K1_R3	TVCARAQAPP	PSWDQMWKCL	TRI-KPTI-HGD	TPLLYRLGAV	ONEVILTHPI
HCV_K1_S1	TVCARAQAPP	PSWDQMWKCL	TRIKPTIHED	TPLLYRLGAV	OMENTETHEI
HCV_K1_S2	TVCARAQAPP	PSWDQMWKCL	TRI-KPTT-HCD	TPLLYRLGAV	QNDVTLTHPI
HCV_K1_S3	TVCARAQAPP	PSWDQMWKCL	TRI-KPTI-HCP	TPLLYRLGAV	ONEATTHEI
HCV_L2	TVCARAQAPP	PSWDQMWKCL	TWI.KDVI.UCD	TPLLYRLGAV	ONEVILTHDI
HCV_N	TVCARAQAPP	PSWDQMWKCL	TRIKPTI.UCD	TPLLYRLGAV	QNEITLTHPI
HCV12083		PSWDMMWKCL	TPLKPTLTCP	TPLLYRLGAV	QNEVTLTHPI
HCV1480	TVCVRAKAPP	PSWDTMWKCM	TCLKPTLTCP	TPLLYRLGAV	QNGVITTHPI
HCVPOLYP	TVCARAQAPP	PSWDOMWKCT	TRIKETHIGE	TPLLYRLGAV TPLLYRLGAV	QNEITLTHPI
HD_1	TVCARAQAPP	PSWDOMWKCT.	TRIKETINGE	TPLLYRLGAV	QNEVVLTHPI
HPCCGAA	TVCARAQAPP	PSWDOMRKCT.	TRLKDTLUGD	TPLLYRLGAV	QNEVILTHPI
HPCFG	TVCARAKASP	PCWDEMWKCT.	TRIKETINGE	TPLLYRLGAV	QNEVTLTHPI
HPCGENANTI	TVCARAQAPP	PSWDOMWKCT.	TREET THOUSE	TPLLYRLGAY	QNDICMTHPI
<b>HPCGENOM</b>	TVCAKAQAPP	PSWDOMWKCI	TRI-KDTI-OCD	TPLLINICAY	QNEVTLTHPI
HPCHUMR	TVCARAQAPP	PSWDOMWKCT.	TRICETINGS		QNEVTLTHPI
HPCJ	TVCARSQAPP	PSWDOMWKCT.	TDI.VDTI HOD		QNEVTLTHPI
HPCJCG	TVCARAOAPP	PSWDOMWKCT.	TRIKPILINGP	TPLLYRLGAV	QNEVTLTHPI
HPCJK046	TVCARAKAPP	PSWDTMWKCT	T.DI.KDut max	TPLLYRLGAV	QNEVTLTHPI
HPCJK049	TVCARAAALD	PSWDETWECT	TOTALLITED	TPLLYRLGAV	QNEVTPTHPV
HPCJTA	TVCARAOADD	PSWDOMWYOT	TUT KDUT	TPLLYRLGAV	QNEICTTHPV
HPCJTB	TVCARAOADD	TOWDOWNING TO	TEL KEGE	TPLLYRLGAV	QNEITLTHPI
НРСКЗА	TVCARAOADD	T OND SIMMYCT	TKTKLI,THGB	TPLLYRLGAV	QNEITLTHPI
HPCPLYPRE	TACHTOTAL	PRADELMKCT	VKTKb1THGb	TPLLYRLGPV	QNEICLTHPI
HPCPOLP	TACTOREE	PONDOMMECT	TKTKbLL'HGD	TOT.T.VOT CARE	ONTO TOTAL CONTROL
HPCPP	TUCADARADE	POMDOMMKCT	TKLKPTLVGP	TPLLYRLGSV	TNEVTLTHPV
HPCUNKCD	TACHTOTIONED	PRODUMENT	TKPKbalrago	TOT.T.VIDT.CINTS.	037777 WOT
MKC1A	TACHTONDEL	POMDEMMKCP	TKTKLLTHGL	TPLLYRLGAV (	QNEVTLTHPI
	TVCARAKAPP	<b>ESMDÖMMKCT</b>	TKTKLLTHGD	TPLLYRLGAV	QNEVTLTHPI

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NDM59 TVCARAKAPP PSWDVMWKCL TRLKPTLVGP TPLLYRLGPV TNEVTLTHPV
       NZLI TVCARAQAPP PSWDEMWKCL VRLKPTLHGP TPLLYRLGPV QNETCLTHPI
       SA13 TVCVRAKAPP PSWDTMWKCM LRLKPTLTGP TPLLYRLGAV QNEITLTHPI
      Th580 TVCARAKAPP PSWDVMWKCL TRLKPTLTGP TPLLYRLGAV QNEIVTTHPI
 Type_3a_CB TVCARAQAPP PSWDETWKCL VRLKPTLHGP TPLLYRLGPV QNEICLSHPI
    TypeV_D TVCARAQAPP PSWDEMWKCL VRLKPTLHGP TPLLYRLGPV QNETCLTHPV
      VN004 TVCARAKAPP PSWDTMWKCL IRLKPMLTGP TPLLYRLGPV QNEVVTTHPI
      VN235 TVCARAKAPP PSWDTMWKCL IRLKPMLTGP TPLLYRLGAV QNEIITTHPI
      VN405 TVCARAKAPP PSWDTMWKCL IRLKPMLTGP TPLLYRLGAV QNEITTTHPI
      BEBE1 TKYIATCMQA DLEIMTSTWV LAGGVLAAVA AYCLATGCVS IIGRIHVNQK
     D89815 TKYIMACMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIILSGR
ED43type_4 TKYIMACMSA DLEVVTSTWV LVGGVLAALA AYCLSVGSVV IVGRVVLSGQ
      HC_C2 TKYIMACMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIVLSGR
      HC_G9 TKYIMACMSA DLEVVTSTWV LVGGVLAALA AYCLSTGSVV IVGRIILSGK
   HCU16326 TKFIMTCMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIILSGK
  HCV H_CMR TKYIMTCMSA DLEVVTSTWV LVGGVLAALA AYCLSTGCVV IVGRIVLSGK
     HCV_J1 TKYIMTCMSA DLEVVTSTWV LVGGVLAALA AYCLSTGCVV IVGRIVLSGR
   HCV_J483 TKYIMACMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIILSGK
    HCV_J8 TKYIATCMQA DLEIMTSSWV LAGGVLAAVA AYCLATGCIS IIGRLHLNDR
    HCV_JK1 TKFIMACMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIILSGR
    HCV_JS TKYIMACMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIILSGK
 HCV_K1_R1 TKYIMTCMSA DLEVVTSTWV LVGGVLAALT AYCLTTGSVV IVGRIILSGK
 HCV K1 R2 TKYIMACMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIILSGK
 HCV K1 R3 TKFIMACMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIILSGK
 HCV_K1_S1 TKYIMTCMSA DLEVVTSTWV LVGGVLAALT AYCLTTGSVV IVGRIILSGK
 HCV_K1_S2 TKYIMACMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIILSGK
 HCV_K1_S3 TKFIMACMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIILSGK
     HCV_L2 TKLIMASMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIILSGR
      HCV_N TKYIMACMWA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIILSGR
  HCV12083 TKYIMTCMSA DLEVITSTWV LVGGVLAALA AYCLSVGCVV ICGRITLTGK
   HCV1480 TKYIMACMSA DLEVITSTWV LVGGVVAALA AYCLTVGSVA IVGRIILSGR
  HCVPOLYP TKYIMACMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIILSGR
       HD_1 TKFIMACMSA DLEVVTSTWV LVGGVLAALA AYCLTTGCVV IVGRIILSGR
   HPCCGAA TKYIMTCMSA DLEVVTSTWV LVGGVLAALA AYCLSTGCVV IVGRIVLSGK
      HPCFG TKYIMACMSA DLEVTTSAWV LVGGVLAALA AYCLSVGCVV IVGHIELGGK
HPCGENANTI TKYIMACMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIILSGK
HPCGENOM TKYIMTCMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIVLSGS
   HPCHUMR TKYIMACMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIILSGR
HPCJ TKFIMACMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIILSGR
HPCJCG TKYIMACMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIILSGR
  HPCJCG TKYIMACMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIILSGR
HPCJK046 TKYIMACMSA DLEVITSTWV VAGGILAAIA AYCLTVGSVV ICGRITTSSR
HPCJK049 TKYIATCMAA DLEVATSAWV LLGGVMAALT AYCLSVGSVV IVGHLVLGGK
HPCJTA TKFIMACMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIILSGR
HPCJTB TKFIMACMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIILSGR
HPCK3A TKYVMACMSA DLEVTTSTWV LLGGVLAAVA AYCLSVGCVV IVGRIILSGR
 HPCPLYPRE TKYIMTCMSA DLEVVTSTWV LVGGVLAALA AYCLSTGCVV IVGRVVLSGK
   HPCPOLP TKYIATCMQA DLEVMTSTWV LAGGVLAAVA AYCLATGCVC IIGRLHVNQR
     HPCPP TKFIMACMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIILSGR
  HPCUNKCD TKFIMTCMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIILSGK
     MKC1A TKFIMACMSA DLEVVTSTWV LVGGVLAALA AYCLTTGSVV IVGRIILSGR
     NDM59 TKYIATCMQA DLEVMTSTWV LAGGVLAAVA AYCLATGCVS IIGRLHVNQR
      NZLI TKYLMACMSA DLEVTTSTWV LLGGVLAALA AYCLSVGCVV IVGHIELEGK
      SA13 TKYIMACMSA DLEVITSTWV LVGGVVAALA AYCLTVGSVA IVGRIILSGR
     Th580 TKYIMTCMSA DLEVITSTWV IVGGVLAALA AYCLTVGCVV ICGRIVTSGK
Type_3a_CB TKYVMACMSA DLEVTTSTWV LLGGVLAALA AYCLSVGCVV IVGHIELGGK
   TypeV_D TKYIMACMSA DLEVTTSTWV LLGGVLAALA AYCLSVGCVV IVGHIELGGK
     VN004 TKYIMTCMSA DLEVITSTWV LVGGVVAALA AYCLSVGCVV ICGRISTSGK
     VN235 TKYIMTCMAA DLEVITSTWV LAGGIVAALA AYCLTVGSVV ICGRIVTSGK
     VN405 TKYIMTCMSA DLEVITSTWV LVGGVLAALA AYCLSVGCVV VCGRISTTGK
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	1701				
BEBE1		VIII DOWNER of			1750
D89815	TITAPDEEN	YEAFDEMEEC	ASRTALIEEG	HRIAEMLKSK	1750 IQGLMQQASK
ED43type_4		TOULDDINEEC	ASHLPYIROG	・MOTALOLOLOL	'
HC C2	EMATERIES	TOOLDEWEEC	SKHIPINEHG	<b>しいしょうせい ロックス</b>	* AT OT TARMS OF-
HC_C2 HC G9	EWATEDVEAD	TOPLDEMEEC	GSHLPYTEOG	MOTATOTION	*
_	EWATEDVEAT	IKELDEMEEC	AAHIPYTEOG	MHT. A DO DDO D	`
HCU16326	EVTTEDUEAN	TOPLDRMREC	ASHLPYFROG	MOLAROPROV	AT OF TOWN OVE
HCV_H_CMR	エムエエトロゼロ Λ ゴ	TOPPDEMERC	SUHLPYTROG	・ MMT ス ロへロセヘセ	NT OT TOWN OR
HCV_J1	ENTIFDER	IKELDEMERC	SOHLPYTROG	MMT プロヘロセヘセ	* * T OT T O
HCV_J483	THAALDVRAD	TOPEDENERC	ASOLPYTROG	MOT. カロヘロセヘセ	AT OT TOWN
HCV_J8	AAAMEDIGELE	TEMPLEMERC	ASKAALIEEG		TOOTTOORMS
HCV_JK1	ENTIPDED AT	TOPPDEMEEC	ASHLPYTEOG	MOT. A DO DDO D	AT OF FOREST
HCV_JS	TWATEDURAN	IKEPDEMEEC	ASHLPYTEOG	MOLVEORS	AT OT TOWN THE
HCV_K1_R1	EWATEDVEWI	TOPLDEMERC	ASHLPYTEOG	$M \cap T \cdot X = \cap = v \cap v$	AT OT T AME
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HCV_K1_S1	THATEDIGHT	TOPLDEMERC	ASHIPYTEOG	MOT. A POPROR	AT CITT OF THE
HCV_K1_S2	LUTTEDIE	TKPLDEMERC	ASHLPYIEOG	MOLVEORKOR	AT CIT I OMA MIC
HCV_K1_S3	THATEDERAD	TKELDEMEEC	ASHIPVIECO	MOT. カロヘロセヘセ	3 T CT T C
HCA_P3	EWATEDKEAN	TKELDEMEEC	ASHIPYTEOG	ひんしか ひつむなつか	AT OT TOWN OWN
HCV_N	THASTDIEST	TKELDEMEEC	ASHUPYTEOG	MOT. ス ₽へ₽₽へ₽	AT OT TOWN HER
HCV12083	EMAALDEGIN	TOOPDEMEEC	SKHIPYLARC		TIT OT T OR CO.
HCV1480	ENTIFDEDIT	TOOLDEMERC	SASLPYVDEA	DATACADEED	TIT OF TOWN OR
HCVPOLYP	TATTEDIENT		ASHLPYTROG	$M \cap I \cdot X \ \nabla \cap \Gamma V \cap V$	AT OF FOREMER
HD_1	TATARDKEAN	TOEFDEMEEC	ASHLEVIECE	MOLADODZAZ	3 T GT T 0
HPCCGAA	* *** T T D ICE * T	* CEL DEMERC	SUBLIPATRUC	MMT.カロヘロセヘセ	AT OTT OFFI
HPCFG	TADALDKÖAD	TOOTDEMEEC	SUSAPYTROX		TIT OT T OD TOO
HPCGENANTI	PAVVPDREVL	YOEFDEMEEC	ASHTIPVIECE	MQLAEQFKQK	VLGLLQRASQ
HPCGENOM	PAIVPDREVL	YODFDEMEEC	ASHT-DVTEOG	MQLAEQFKQK	ALGLLQTATK
HPCHUMR	PAIVPDRELL	YOEFDEMEEC	ASHT. DVIEGG	MQLAEQFKQK	ALGLLQTATK
HPCJ	PAVIPDREVL	YREFDEMEEC	ASHT-DVIEGG	MLLAEQFKQK	ALGLLQTATK
HPCJCG	PAVIPDREVL	YOEFDEMEEC	ASHI.DVIECO	MQLAEQFKQK	ALGLLQMATK
HPCJK046	PAVIPDREVM	YOOYDEMEEC	ADITE TIEOG	QQLAEQFKQK	ALGLLQTATK
HPCJK049	PALVPDKEVL	YOOYDEMEEC	SDYYDALEON	QGIAQQFKEK	VLGLIQVTTK
HPCJTA	PAVVPDREVL	YREFDEMEEC	ACHT DATE OF	MQLAEQFKQK	VIGLLQQADQ
HPCJTB	PAVVPDREVL	YREFDEMEEC	VOUTE TEOC	MQLAEQFKQK	ALGLLQTATK
нрскза	PALVPDKEVT	YOOYDEMEEC	WOUTH TEOR	MQLAEQFKQK	ALGLLQTATK
HPCPLYPRE	PAIIPDREVI	ADEADEWEEC	SOMETIEON	QVIAHQFKEK	VLGLLQRATQ
HPCPOLP	AVVAPDKEVT	VEAFDEMEEC	POUTFIEGG	MMLAEQFKQK	ALGLLQTASR
HPCPP	PAVIPOREVI	AUBEDEMEEC	ASKAALIEEG	QRIAEMLKSK	IQGLLQQASK
HPCUNKCD	PATTPDREVI.	AUBEDEMEEC	ASHLPYTEQG	MQLAEQFKQK	ALGLLQTATK
MKC1A	PAVIPOREVI.	AUEDDEWEEG	ASHLPYFEQG	MQLAEQFKQK	ALGLLQTATK
NDM59	AVVAPDKEVT.	VEVENERG	ASHTLATEÓG	MQLAEQFKQK	ALGLLQTATK
NZLI	PALVPDKEVI	VOOVDEMEEC	ASKAALIEEG	QRIAEMLKSK	IQGLLQQASK
SA13	PATTPDREVI.	AUUEDEMEEC	SQAAPYIEQA	QVIAHQFKEK	ILGLLQRATQ
Th580	PAVVPDREVI.	VOORDEMEEG	SASLPYMDEA	RAIAEQFKEK	VLGLIGTAGQ
Type_3a_CB	PALVPDKEVI.	AUUADEMEEG	SKHIPATARG	QQIAEQFKQK	VLGLLQAGTK
	PALVEDREVI.	AUOADEMERG	SQAAPYIEQA	QAIAHQFKEK	VLGLLQRATQ
VN004	PALVPDKEVL	TOOTDEMEEC	SQAAPYIEQA	QAIAHQFKEK	VLGLLQRATQ
VN235	DVDI.DDRVI	TOOPDEMEEC	SRHIPYLAEG	HLIAEQFKQK	VLGLIQSTSK
VN405	DIT.TDDDETT	TROLDEMEEC	SRHIPYLAEG	QQIAEQFKQK	ILGLLQNTAK
· · · · · · · · · · · · · · · · · · ·	FATTEDKEAT	IOGEDEMEEC	SRHIPYLVEG	QHLAEQFKQK	VLGLIQTTTR
	1751		•		
BEBE1		Amunica			1800
D89815	CUTEN N N DUTE.	ATWPKLEQFW	AKHMWNFISG	IQYLAGLSTL	PGNPAVASMM
ED43type_4	OUDWAYS AAP	PKMKYTELLEM	AKHMWNFISG	TOYT, AGT, COT.	DOMINA TAGEM
HC_C2	ZUZDWIL ATŽ	PMLMYTTROLM	ANDMWNFTSC	TOVI ACT COT	DOMINA TAGEN
	Augume AAG	DVMKWTF.I.I.M	AKHMWNFTSC	VAVI.NAIL COT	DOMEST A COLD
110_03	SURTITIEM AU	TIMONTERSEM	AKHMWNFVSG	TOYTAGLETT.	DOMD'S TROUB
HCU16326 HCV_H_CMR	GUIDHAM V	OVMKWTEJ.E.M	AKHMWNFISG	TOYTAGI.STT.	DCNDATDCOM
TC A TU CLIK	HAEVITPAVQ	TNWOKLEVEM	akhmwnfisg	IQYLAGLSTL	PGNPAIASLM

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HCV_J1 QAEVIAPTVQ TNWQKLEAFW AKHMWNFISG IQYLAGLSTL PGNPAIASLM
 HCV_J483 QAEAAAPVVE SKWRALETFW AKHMWNFISG IQYLAGLSTL PGNPAIASLM HCV_J8 QAQDIQPAIQ SSWPKLEQFW AKHMWNFISG IQYLAGLSTL PGNPAIASLM HCV_JK1 QAEAAAPVVE SKWQALEAFW AKHMWNFISG IQYLAGLSTL PGNPAIVSLM HCV_JS QAEAAAPVVE SKWRALETFW AKHMWNFISG IQYLAGLSTL PGNPAIVSLM HCV_K1_R1 QAEAAAPVVE SKWRALEAFW AKHMWNFISG IQYLAGLSTL PGNPAIASLM HCV_K1_R2 QAEAAAPVVE SKWQALETFW AKHMWNFISG IQYLAGLSTL PGNPAIASLM HCV_K1_R3 QAEAAAPVVE SKWRALEAFW AKHMWNFISG IQYLAGLSTL PGNPAIASLM HCV_K1_S1 QAEAAAPVVE SKWRALEAFW AKHMWNFISG IQYLAGLSTL PGNPAIASLM HCV_K1_S2 QAEAAAPVVE SKWRALEAFW AKHMWNFISG IQYLAGLSTL PGNPAIASLM HCV_K1_S3 QAEAAAPVVE SKWRALETFW AKHMWNFISG IQYLAGLSTL PGNPAIASLM HCV_L2 QAEAAAPVVE SKWRALETFW AKHMWNFISG IQYLAGLSTL PGNPAIASLM HCV_L2 QAEAAAPVVE SKWRALETFW AKHMWNFISG IQYLAGLSTL PGNPAIASLM HCV_L2 QAEAAAPVVE SKWRALETFW AKHMWNFISG IQYLAGLSTL PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASLM PGNPAIASL
          HCV_N QAEAAAPVVG SKWRAFETFW AKHMWNFISG IQYLAGLSTL PGNPAIASLM
    HCV12083 QAEELKPAVH SAWPRVEDFW RKHMWNFVSG IQYLAGLSTL PGNPAVASLM
      HCV1480 KAETLKPAAT SMWSKAEQFW AKHMWNFVSG IQYLAGLSTL PGNPAVATLM
    HCVPOLYP QAEAAVPVVE SKWQALEAFW AKHMWNFISG IQYLAGLSTL PGNLAIASLM
             HD 1 QAEAAAPVVE SKWRALEAFW AKHMRNFISG IQYLAGLSTL PGNPAIASLM
       HPCCGAA HAEVITPAVQ TNWQKLEVFW AKHMWNFISG IQYLAGLSTL PGNPAIASLM
           HPCFG QEAEIRPIVQ SQWQKAEAFW QQHMWNFVSG IQYLAGLSTL PGNPAVASLM
 HPCGENANTI QAEAAAPVVE SKWRTLEAFW ANDMWNFISG IQYLAGLSTL PGNPAIASLM
    HPCGENOM QAEAAAPVVE SKWRALETFW EKHMWNFISG IQYLAGLSTL PGNPAMASLM
       HPCHUMR QAEAAAPVVE SKWRALETFW AKHMWNFISG IQYLAGLSTL PGNPAIASLM
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ED43type_4 VGLGKILVDI LPGYGAGVRG AVVTFKIMSG EMPSTEDLVN LLPAILSPGA
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          HC_C2 GGNITRVESE NKVVILDSFE PLRAEE.DER EVSVAAEILR KTR.RFPPAM
          HC_G9 GGNITRVESE NKIVILDSFD PLVAEE.DDR EISVPAEILL KSK.KFPPAM
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HD_1	LTESTVSSAL	AELATKTFGS	SES SAVING	TATAPPGOSS	DDVDTG
HPCCGAA	LTESTLPTAL	AELATKSFGS	SST SGUTCH	NTTTCCCO	SGCPPD
HPCFG	LDGSNVSAAL	LALAERSFPS	יויא טאיניידיביידיפים	0/37/2/2020	
HPCGENANTI	LTESTVSSAL	AELATKTEGS	SEC CARCO	Mama	
HPCGENOM					
HPCHUMR					
HPCJ					
HPCJCG					
HPCJK046	LDDSVVGHVL	AOLAEKSEDA	DGG.SAVDSG	TATGPPDQAS	DDGDKG LPSAE.DDDA
HPCJK049					
HPCJTA	LTESTVSSAL	VELVARABLE CO	SGS.SAVDSG	SGVGTQSGSL	LPSAE.DDDA TGPVQLDDDD
HPCJTB					
<b>НРСКЗА</b>					
HPCPP					
HPCUNKCD					
MKC1A					
NDM59					
NZLI					
		COULD TO LEY	SKUCHENCOO	COIDMAAA	
SA13					
Th580		CCOUDIVALAR	THEFTSHOOP	ICCOTRADAA	
Type_3a_CB		1727 TUTO 172 IL 172	I'K DU JE EMMEG	COIDMAAAmm	
TypeV_D			VNIDCHIENICCO		<b></b>
VN004					
VN235		CATIOTOL DE	STATECHICA		
VN405	LDDSTVATAL 1	AELAEKSFPT	QPA. STPDSD	SGHDTTCKCC	TOYDEST
					POMDEGEDTP
	2401				<b>.</b>
BEBE1	SEAGSVSSMP 1	PLEGEPGDPD	LEPEOURHDA	DDOむCCマットへ	2450
D89815	SDAESYSSMP 1	PLEGEPGDDD	LS.	FFQEGGAAPG	SUSGSWSTCS
		<b></b> .	~~·····	• • • • • • • • • • •	DGSWSTVS

ED42hima 4	CDDCCVCCMD	DY DOEDON-			
ED43type_4	SDUGSISSMP	PLEGEPGDPD	LT	• • • • • • • • • • • • • • • • • • • •	SDSWSTVS
HC_C2	SDAESISSMP	PLEGEPGDPD	LS	• • • • • • • • • • • • • • • • • • • •	DGSWSTVS
HC_G9	SEAESYSSMP	PLEGEPGDPD	LS	• • • • • • • • • • • • • • • • • • • •	DGSWSTVS
HCU16326	SDVESFSSMP	PLEGEPGDPD	LS	• • • • • • • • • • • • • • • • • • • •	_
HCV_H_CMR				• • • • • • • • • • • • • • • • • • • •	DGSWSTVS
HCV_J1	SDAESYSSMP		LS		DGSWSTVS
HCV_J483	SDVESYSSMP			• • • • • • • • • • • • • • • • • • • •	DGSWSTVS
HCV_J8	SEAGSLSSMP			PSEGECEVID	SDSKSWSTVS
HCV_JK1	SDDESYSSMP	PLEGEPGDPD	LS	• • • • • • • • • • •	DGSWSTVS
HCV_JS	SDVESYSSMP			• • • • • • • • • • • • •	DGSWSTVS
HCV_K1_R1	SDVGSYSSMP			• • • • • • • • • • • • • • • • • • • •	DGSWSTVS
HCV_K1_R2				• • • • • • • • • • • • • • • • • • • •	DGSWSTVS
HCV_K1_R3	SDVGSYSSMP	PLEGEPGDPD	LS	• • • • • • • • • •	DGSWSTVS
HCV_K1_S1	SDVESYSSMP	PLEGEPGDPD	LS	• • • • • • • • • • • • • • • • • • • •	DGSWSTVS
HCV_K1_S2					
HCV_K1_S3	SDVGSYSSMP				
HCV_L2	SDAESYSSMP				
HCV_N	SDAESCSSMP	PLEGEPGDPD	LS		DGSWSTVS
HCV12083	SEAESYSSMP	PLEGEPGDPD	LS		SGSWSTVS
HCV1480	SDAASYSSMP	PLEGEPGDPD	LS		SGSWSTVS
HCVPOLYP	SDVESCSSMP	PLEGEPGDPD	LS		DGSWSTVS
HD_1	SDVESYSSMP	PLEGEPGDPD	LS		DGSWSTVS
HPCCGAA	SDVESYSSMP	PLEGEPGDPD	LS		DGSWSTVS
HPCFG	SDVESYSSMP	PLEGEPGDPD	LD		ADSWSTVS
<b>HPCGENANTI</b>	SDVESCSSMP	PLEGEPGDPD	LS		. DGSWSTVS
HPCGENOM	SDVESYSSMP	PLEGEPGDPD	LS		. DGSWSTVS
HPCHUMR	SDVESYSSMP	PLEGEPGDPD	LS		DGSWSTVS
HPCJ	SDVESYSSMP	PLEGEPGDPD	LS		DGSWSTVS
HPCJCG	SDVESYSSMP		LS		DGSWSTVS
HPCJK046	SDADSYSSMP			•••••	
HPCJK049	SDNESHSSMP	PLEGEPGDPD	LS		SGSWSTVS
HPCJTA	SDVESYSSMP	PLEGEPGDPD	LS		DGSWSTVS
HPCJTB	SDVESYSSMP				DGSWSTVS
HPCK3A	SDSESCSSMP	PLEGEPGDPD	LS		
HPCPLYPRE	SDAESYSSMP				
HPCPOLP	SETGSISSMP	PLEGEPGDPD	LEPEOVELOP	PPQGGVVTPG	SCECEMETCE
HPCPP	SDAESYSSMP	PLEGEPGDPD	LN		DGSWSTVS
HPCUNKCD	SDVESFSSMP	PLEGEPGDPD	LS	• • • • • • • • • • • • • • • • • • • •	DGSWSTVS
MKC1A	SDAESYSSMP	PLEGEPGDPD	T.N	• • • • • • • • • • • • • • • • • • • •	DGSWSTVS
NDM59	SETGSISSMP	PLEGEPGDPD	LEDEOVELOP	PPQGEEVVPG	CDCCCMCMCC
NZLI	SDSESCSSMP	PLEGEPGDPD	TOLDQVBDQE	·······	SDSGSMSICS
SA13	SDAASYSSMP	PLEGEPGDPD	T.S	• • • • • • • • • • • • • • • • • • • •	CDSWSIVS
Th580	SDAGSFSSMP	PLEGEDGDDD	T.G	• • • • • • • • • • • • • • • • • • • •	SGSWSTVS
Type 3a CB	SDSESCSSMP	PLEGEDGDDD	T.S	• • • • • • • • • • • • • • • • • • • •	IGSWSTVS
TypeV_D	SDSESCSSMP	PLEGEDGDDD	T.C	• • • • • • • • • • •	CDSWSTVS
VN004	SEAESYSSMP	PLEGEDGDDD	T.S	• • • • • • • • • • • • • • • • • • • •	COCWOMIC
VN235	SDDGSYSSMP	PILEGEDGDDD	T.Q	• • • • • • • • • • • • • • • • • • • •	SGSWSTVS
VN405	SEAGSYSSMD	DI'EGEDGUDU	T.C	• • • • • • • • • • • • • • • • • • • •	SGSWSTVS
	D11100100111	THORFGDFD	шо	• • • • • • • • • •	SGSWSTVS
	2451				0500
BEBE1		CSMSYSWTCA	T.TTDCCDEED	KLPINPLSNS	2500
D89815	EEA SEDVAC	CSMSVTWTGA	TITTOCATEDE	KLPINALSNP	TIDUUNKVYC
ED43type_4	GSE. DVVC	CSMSVSWTCA	TITECHMEES	KLPISPLSNS	PURHHNMVYS
HC C2	REA SCOUNC	CCMCAMMON	T.TUDON A BRIC	VT DIME COL	ттинимити Ттинимити
HC_G9	SDGGTEDINIC	COMCACAMON	T TODOS S TO	KLPINPLSNS	тткннимух
HCU16326	EEV CELLILIA	COMOVERED	PITTLCAARET	KLPINALSNS	LLRHHNLVYS
HCV_H_CMR	SCADABDIANA TOWNDEDANG	COMOVIENTOR	DITPCAAEES	KLPINPLSNS	LLRHHNMVYA
HCV_H_CMR	CENCEDIUM POUNTEDAAC	COMOVERNO	LITTECAAEEQ	KLPINALSNS	LLRHHNLVYS
HCV_51	PRUGIEDAAC	COMOVIER	DITPCAAEEQ	KLPINALSNS	LLRHHNLVYS
HCV_U483	DOE DOME	COMOVORMO	DITPCAAEES	KLPINPLSNS	LLRHHNMVYA
HCV_JK1	POP. DSVIC	COMOVIEWICA	PITPCGPEEE	KLPINPLSNS	LMRFHNKVYS
TC A TO KT	BEM. SEDVAC	CombitWTGA	PITPCAAEES	KLPINPLSNS	LLRHHNMVYA

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HCV_JS EEA.SEDVVC CSMSYTWTGA LITPCAAEES KLPINPLSNS LLRHHNMVYA
   HCV_K1_R1 EEA.GEDVVC CSMSYTWTGA LITPCAAEES KLPINALSNS LLRHHNMVYA
   HCV K1_R2 EEA.GEDVVC CSMSYTWTGA LITPCAAEES KLPINALSNS LLRHHNMVYA
   HCV K1_R3 EEA.GEDVVC CSMSYTWTGA LITPCAAEES KLPINALSNS LLRHHNMVYA
   HCV_K1_S1 EEA.GEDVVC CSMSYTWTGA LITPCAAEES KLPINALSNS LLRHHNMVYA
   HCV_K1_S2 EEA.GEDVVC CSMSYTWTGA LITPCAAEES KLPINALSNS LLRHHNMVYA
   HCV_K1_S3 EEA.GEDVVC CSMSYTWTGA LITPCAAEES KLPINALSNS LLRHHNMVYA
           HCV_L2 EEA.SEDVVC CSMSYSWTGA LITPCAAEES KLPINALSNS LLRHHNMVYA
             HCV N EEA.GESVVC CSMSYTWTGA LITPCAAEES KLPINALSNS LLRHHNMVYA
      HCV12083 DEDD...VVC CSMSYSWTGA LITPCAAEEE KLPINPLSNS LVRHHNMVYS
        HCV1480 GED...NVVC CSMSYTWTGA LITPCSAEEE KLPINPLSNT LLRHHNLVYS
      HCVPOLYP EEA.SEDVVC CSMSYTWTGA LITPCAAEES KLPINALSNS LLRHHNMVYA
                HD_1 EEA.NEDVVC CSMSYTWTGA LITPCAAEES KLPINALSNS LLRHHNMVYA
        HPCCGAA SGADTEDVVC CSMSYSWTGA LVTPCAAEEQ KLPINALSNS LLRHHNLVYS
             HPCFG DSE.EQSVVC CSMSYSWTGA IITPCSAEEE KLPISPLSNS LLRHHNLVYS
HPCGENANTI EED.GEGVIC CSMSYTWTGA LITPCAAEES KLPINALSNS LLRHHNMVYA
HPCGENOM EEA.SEDVVC CSMSYTWTGA LITPCAAEES KLPINPLSNS LLRHHNMVYA
  HPCGENOM EEA.SEDVVC CSMSYTWTGA LITPCAAEES KLPINPLSNS LLRHHNMVYA HPCHUMR EEA.SEDVVC CSMSYTWTGA LITPCAAEES KLPINPLSNS LLRHHNMVYA HPCJ EEA.SEDVVC CSMSYTWTGA LITPCAAEES KLPINPLSNS LLRHHNMVYA HPCJCG GEA.GEDVVC CSMSYTWTGA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA HPCJK046 SEETS..VVC CSMSYSWTGA LITPCAAEEE KLPISPLSNT LIRHHNMVYS HPCJK049 .GE.EQSVVC CSMSYSWTGA LITPCAAEEE KLPISPLSNS LLRHHNMVYS HPCJTA GEA.SDDIVC CSMSYTWTGA LITPCAAEES KLPINALSNS LLRHHNMVYA HPCJTB GEA.SDDIVC CSMSYTWTGA LITPCAAEES KLPINALSNS LLRHHNMVYA HPCK3A DSE.EQSVVC CSMSYSWTGA LITPCAAEES KLPINALSNS LLRHHNMVYA HPCPPLYPRE SEANAEDVVC CSMSYSWTGA LITPCAAEES KLPINPLSNS LLRHHNLVYS HPCPOLP EED..DSVVC CSMSYSWTGA LITPCAAEES KLPINPLSNS LLRHHNLVYS HPCPP EEA.SEDVVC CSMSYTWTGA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCAAEES KLPINPLSNS LLRHHNMVYA LITPCA
SA13 DED...SVVC CSMSYSWTGA LITPCSAEEE KLPINPLSNT LLRHHNLVYS
Th580 EEDD...VVC CSMSYTWTGA LITPCAAEEE KLPINPLSNS LIRHHNMVYS
TYPe_3a_CB DSE.EQSVVC CSMSYSWTGA LITPCSAEEE KLPISPLSNS LLRHHNLVYS
TYPEV_D DSE.EQSVVC CSMSYSWTGA LITPCSAEEE KLPISPLSNS LLRHHNLVYS
             VN004 EEGDS..VVC CSYSYSWTGA LVTPCAAEEE KLPINPLSNS LIRHHNLVYS
             VN235 EDHDS..VVC CSMSYSWTGA LITPCAAEEE KLPISPLSNA LIRHHNLVYS
             VN405 EEGDS..VVC CSMSYSWTGA LVTPCAAEEE KLPINPLSNS LIRHHNLVYS
                               2501
            BEBE1 TTSRSASQRA KKVTFDRVQL LDSHYESVLK DVKQAATKVS AKLLSIEEAC
          D89815 TTSRSASLRQ KKVTFDRMQV LDDHYRDVLK EMKAKASTVK AKLLSVEEAC
ED43type_4 TTTRSAVTRQ KKVTFDRLQV VDSTYNEVLK EIKARASRVK PRLLTTEEAC
     HC_C2 TTSRSASLRQ KKVTFDRLQV LDDHYRDVLK EMKAKASTVK AKLLSIEEAC
HC_G9 TTSRSAGQRQ KKVTFDRLQV LDDHYRDVLK EAKAKASTVK AKLLSVEEAC
HCU16326 TTSRSAGLRQ KKVTFDRLQV LDDHYRDVLK EMKAKASTVK AKLLSVEEAC
 HCU16326 TTSRSAGLRQ KKVTFDRLQV LDDHYRDVLK EMKAKASTVK AKLLSVEEAC
HCV_H_CMR
HCV_J1 TTSRSACQRQ KKVTFDRLQV LDSHYQDVLK EVKAAASKVK ANLLSVEEAC
HCV_J483 TTSRSASLRQ KKVTFDRLQV LDDHYRDVLK EMKAKASTVK AKLLSIEEAC
HCV_J8 TTSRSASLRA KKVTFDRVQV LDAHYDSVLQ DVKRAASKVS ARLLTVEEAC
HCV_JK1 TTSRSAGLRQ KKVTFDRLQV PDDHYRDVLK EMKAKASTVK AKLLSIEEAC
HCV_K1_R1 TTSRSASQRQ KKVTFDRLQV LDDHYRDVLK EMKAKASTVK AKLLSIEEAC
HCV_K1_R2 TTSRSASQRQ KKVTFDRLQV LDDHYRDVLK EMKAKASTVK AKLLSVEEAC
HCV_K1_R3 TTSRSASQRQ KKVTFDRLQV LDDHYRDVLK EMKAKASTVK AKLLSVEEAC
HCV_K1_R3 TTSRSASQRQ KKVTFDRLQV LDDHYRDVLK EMKAKASTVK AKLLSVEEAC
HCV_K1_S1 TTSRSASQRQ KKVTFDRLQV LDDHYRDVLK EMKAKASTVK AKLLSVEEAC
  HCV_K1_S1 TTSRSASQRQ KKVTFDRLQV LDDHYRDVLK EMKAKASTVK AKLLSVEEAC
 HCV_K1_S2 TTSRSASQRQ KKVTFDRLQV LDDHYRDVLK EMKAKASTVK ARLLSVEEAC
HCV_K1_S3 TTSRSASQRQ RKVTFDRLQV LDDHYRDVLK EMKAKASTVK AKLLSVEEAC
HCV_L2 TTSRSAGLRQ KKVTFDRLQV LDDHYRDVLK EMKAKASTVK AKLLSVEEAC
           HCV_N TTSRSAGLRQ KKVTFDRLQV LDDHYRDVLK EMKAKASTVK AKLLSIEEAC
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11011122002	mmon or or no				
HCV12083	TISKSASLRQ	KKVTFDRVQV	FDQHYQDVLK	EIKLRASTVQ	AKLLSIEEAC
HCV1480	TSSRSAGLRQ	KKVTFDRLQV	LDDHYREVVD	EMKRLASKVK	ARLLPLEEAC
HCVPOLYP	TTSRSASQRQ	KKVTFDRLQV	LDDHYRDVLK	EMKAKASTVK	AKLLSVEEAC
HD_1	TTSRSASQRQ	KKVTFDRQQV	QDDHYRDVLK	EMKAKASTVK	ARLLSVEEAC
HPCCGAA	TTSRSACQRK	KKVTFDRLQV	LDSHYQDVLK	EVKAAASKVK	ANLLSVEEAC
HPCFG	TSSRSAAARQ	KKVTFDRLQV	LDDHYKNVLK	EVKERASGVK	GRLLSFEEAC
HPCGENANTI	TTSRSASQRQ	KKVTIDRLQV	LDDHYRDVLK	EMKAKASTVK	AKLLSVEEAC
HPCGENOM	TTSRSASLRQ	KKVAFDRMQV	LDDHYRDVLK	EMKAKASTVK	AKLLSIEEAC
HPCHUMR	TTSRSAGLRQ	KKVTFDRLQV	LDDHYRDVLK	EMKAKASTVK	AKLLSVEEAC
HPCJ	TTSRSASLRQ	KKVTFDRLQV	LDDHYRDVLK	EMKAKASTVK	AKLLSVEEAC
HPCJCG	TTSRSASLRQ	KKVTFDRLQV	LDDHYRDVLK	EMKAKASTVK	ARLISTERAC
HPCJK046	TTSRSAALRQ	KKVTFDRQQV	VDQHYYDTLK	EMKARASTVS	AKLISVEEAC
HPCJK049	TSSRSAAQRQ	KKVTFDRLQV	LDDHYNTTLK	EIKELASGVK	ARLISVERAC
HPCJTA	TTSRSASLRQ	KKVTFDRLQV	LDDHYRDVLK	EMKAKASTVK	AKTILSVERAC
HPCJTB	TTSRSASLRQ	KKVTFDRLQV	LDDHYRDVLK	EVKAKASTVK	AKTILSVEEAC
нрскза	TSSRSASQRQ	KKVTFDRLQV	LDDHYKTALO	EVKERASRVK	ARMISTERAC
HPCPLYPRE	TTSRSACQRQ	KKVTFDRLQV	LDSHYQDVLK	EVKAAASKVK	ANTITISVEEAC
HPCPOLP	TTSKSASLRA	KKVTFDRMQA	LDAHYDSVLK	DIKLAASKVT	ARLITTERAC
HPCPP	TTSRSASQRQ	KKVTFDRLQV	LDDHYRDVLK	DMKAKASTVK	AKLLSVERAC
HPCUNKCD	TTSRSAGLRQ	KKVTFDRLQV	LDDHYRDVLK	EMKAKASTVK	AKLLSVEENC
MKClA	TTSRSASQRQ	KKVTFDRLOV	LDDHYRDVLK	DMKAKASTVK	AKT.I.GVEEAC
NDM59	TTSKSASLRA	KKVTFDRMOV	LDAHYDSVIK	DIKLAASKVS	ADLITT DEAC
NZLI	TSSRSASQRQ	KKVTFDRLOV	LDDHYKTALK	EVKERASRVK	ARDDIDEEAC
SA13	TSSRSAGORO	KKVTFDRLOV	PDDHABEAND	EMKRLASKVK	ARMIDITERAC
Th580	TTSRSAGLRO	KKVTFDRLOV	ADOHAODATK	EIKLRASTVH	ARDUPLEEAC
Type_3a_CB	TSSRSASORO	RKVTFDRLOV	I-DDHAKLMT'K	EVKERASRVK	ARLIDSTEEAC
TypeV D	TSSRSASORO	KKVTFDRTOV	LUDHAKLATIK	EVKERÁSRVK	ARMITTEEAC
VN004	TSSRSAATRO	KKVTFDRVOI.	TUDOHIVYTALK	EIKLRASHVK	ARMLTIEEAC
VN235	TTSRSASLRO	KKVTFDRVOV	MUCHAADIAY	EIKTKASGVS	AULLSTEEAC
VN405	TTTRSAAMRO	KKVTEDDI.OT	ADOUTIDATE	EVKLRASGVS	AKLLSVEEAC
		TOUTHOUSE	TIDOUTINIAAV	RAKTSCAMI	AKLUSVERAC
			~		THE VEHIC
			2		
BEBE1	2551				2600
BEBE1	2551 ALTPPHSARS	KYGFGAKEVR	SLSRRAVDHI	KSVWEDIJED	2600 HCSPIDTTIM
D89815	2551 ALTPPHSARS KLTPPHSAKS	KYGFGAKEVR KFGYGAKDVR	SLSRRAVDHI SLSSRAVNHI	KSVWEDLLED RSVWKDLLED	2600 HCSPIDTTIM TDTPIQTTIM
D89815 ED43type_4	2551 ALTPPHSARS KLTPPHSAKS DLTPPHSARS	KYGFGAKEVR KFGYGAKDVR KFGYGKKDVR	SLSRRAVDHI SLSSRAVNHI SHSRKAINHI	KSVWEDLLED RSVWKDLLED SSVWKDLLDD	2600 HCSPIDTTIM TDTPIQTTIM NNTPIPTTIM
D89815 ED43type_4 HC_C2	2551 ALTPPHSARS KLTPPHSAKS DLTPPHSARS KLTPPHSAKS	KYGFGAKEVR KFGYGAKDVR KFGYGKKDVR KFGYGAKDVR	SLSRRAVDHI SLSSRAVNHI SHSRKAINHI NLSSKAVNHI	KSVWEDLLED RSVWKDLLED SSVWKDLLDD RSVWKDLLED	2600 HCSPIDTTIM TDTPIQTTIM NNTPIPTTIM
D89815 ED43type_4 HC_C2 HC_G9	2551 ALTPPHSARS KLTPPHSARS DLTPPHSARS KLTPPHSARS SLTPPHSARS	KYGFGAKEVR KFGYGAKDVR KFGYGKKDVR KFGYGAKDVR KFGYGAKDVR	SLSRRAVDHI SLSSRAVNHI SHSRKAINHI NLSSKAVNHI SHSSKAIRHI	KSVWEDLLED RSVWKDLLED SSVWKDLLDD RSVWKDLLED NSVWODLLED	2600 HCSPIDTTIM TDTPIQTTIM NNTPIPTTIM TETPIDTTIM NTTPIDTTIM
D89815 ED43type_4 HC_C2 HC_G9 HCU16326	2551 ALTPPHSARS KLTPPHSARS DLTPPHSARS KLTPPHSARS SLTPPHSARS KLTPPHSARS	KYGFGAKEVR KFGYGAKDVR KFGYGKKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR	SLSRRAVDHI SLSSRAVNHI SHSRKAINHI NLSSKAVNHI SHSSKAIRHI SLSSRAVTHI	KSVWEDLLED RSVWKDLLED SSVWKDLLDD RSVWKDLLED NSVWQDLLED RSVWKDLLED	2600 HCSPIDTTIM TDTPIQTTIM NNTPIPTTIM TETPIDTTIM NTTPIDTTIM TETPISTTIM
D89815 ED43type_4 HC_C2 HC_G9 HCU16326 HCV_H_CMR	2551 ALTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSAKS SLTPPHSAKS	KYGFGAKEVR KFGYGAKDVR KFGYGKKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR	SLSRRAVDHI SLSSRAVNHI SHSRKAINHI NLSSKAVNHI SHSSKAIRHI SLSSRAVTHI CHARKAVAHI	KSVWEDLLED RSVWKDLLED SSVWKDLLDD RSVWKDLLED NSVWQDLLED RSVWKDLLED	2600 HCSPIDTTIM TDTPIQTTIM NNTPIPTTIM TETPIDTTIM NTTPIDTTIM TETPISTTIM SVTPIDTIIM
D89815 ED43type_4 HC_C2 HC_G9 HCU16326 HCV_H_CMR HCV_J1	2551 ALTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSAKS SLTPPHSAKS SLTPPHSAKS	KYGFGAKEVR KFGYGAKDVR KFGYGKKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR	SLSRRAVDHI SLSSRAVNHI SHSRKAINHI NLSSKAVNHI SHSSKAIRHI SLSSRAVTHI CHARKAVAHI CHARKAVNHI	KSVWEDLLED RSVWKDLLED SSVWKDLLED RSVWKDLLED RSVWKDLLED RSVWKDLLED NSVWKDLLED	2600 HCSPIDTTIM TDTPIQTTIM NNTPIPTTIM TETPIDTTIM NTTPIDTTIM TETPISTTIM
D89815 ED43type_4 HC_C2 HC_G9 HCU16326 HCV_H_CMR HCV_J1 HCV_J483	2551 ALTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSAKS SLTPPHSAKS SLTPPHSAKS KLTPPHSAKS	KYGFGAKEVR KFGYGAKDVR KFGYGKKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR	SLSRRAVDHI SLSSRAVNHI SHSRKAINHI NLSSKAVNHI SHSSKAIRHI SLSSRAVTHI CHARKAVAHI CHARKAVNHI	KSVWEDLLED RSVWKDLLED SSVWKDLLED RSVWKDLLED RSVWKDLLED RSVWKDLLED NSVWKDLLED RSVWKDLLED	2600 HCSPIDTTIM TDTPIQTTIM NNTPIPTTIM TETPIDTTIM NTTPIDTTIM SVTPIDTIIM SVTPIQTTIM TETPIDTTIM
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D89815 ED43type_4	2551 ALTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSAKS SLTPPHSAKS SLTPPHSAKS KLTPPHSAKS KLTPPHSAKS KLTPPHSAKS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSAKS KLTPPHSAKS KLTPPHSAKS KLTPPHSAKS KLTPPHSAKS KLTPPHSAKS KLTPPHSAKS KLTPPHSAKS KLTPPHSAKS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS KLTPPHSARS	KYGFGAKEVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR KFGYGAKDVR	SLSRRAVDHI SLSSRAVNHI SHSRKAINHI NLSSKAVNHI SHSSKAIRHI SLSSRAVTHI CHARKAVAHI CHARKAVNHI NLSSRAVNHI NLSSRAVNHI NLSSRAVNHI NLSSRAVNHI NLSSRAVNHI NLSSRAVNHI NLSSRAVNHI NLSSRAVNHI NLSSRAVNHI SSRAVNHI NLSSRAVNHI SLDKKALKHI NLSSKAVNHI SLDKKALKHI NLSSKAVNHI SLSKAVNHI NLSSKAVNHI NLSSKAVNHI	KSVWEDLLED RSVWKDLLED RSVWKDLLED RSVWKDLLED NSVWKDLLED NSVWKDLLED RSVWEDLLED RSVWEDLLED RSVWEDLLED RSVWKDLLED	2600 HCSPIDTTIM TDTPIQTTIM NNTPIPTTIM TETPIDTTIM TETPIDTTIM SVTPIDTIIM SVTPIQTTIM TETPIDTTIM TOTPIDTTIM TOTPIDTTIM SUTPIDTTIM SVTPIDTTIM NVTPIDTTIM NVTPIDTTIM NVTPIDTTIM TETPIDTTIM
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HPCJ KLTPPHSAKS KFGYGAKDVR SLSSRAVNHI TSVWKDLLED TKTPIDTTIM
        HPCJCG KLTPPHSAKS KFGYGAKDVR SLSSRAVNHI RSVWEDLLED TETPIDTTIM
     HPCJK046 DLTPAHSARS KFGYGAKDVR GRTSKALNHI NSVWEDLLED NVTPIPTTIM
     HPCJK049 RLVPSHSARS KFGYGAKEVR SLSSKAINHI NSVWEDLLED NTTPIPTTIM
        HPCJTA KLTPPHSAKS KFGYGAKDVR NLSSKAINHI RSVWKDLLED TETPIDTTIM
        HPCJTB KLTPPHSAKS KFGYGAKDVR NLSSKAINHI RSVWKDLLED TETPIDTTIM
        HPCK3A ALVPPHSARS KFGYSAKDVR SLSSKAINQI RSVWEDLLED TTTPIPTTIM
   HPCPLYPRE SLTPPHSAKS KFGYGAKDVR CHARKAVTHI NSVWKDLLED NVTPIDTTIM
      HPCPOLP QLTPPHSARS KYGFGAKEVR SLSGRAVNHI KSVWKDLLED TQTPIPTTIM
          HPCPP KLTPPHSARS KFGYGAKDVR SLSSKAVNHI RSVWKDLLED TETPIDTTIM
     HPCUNKCD KLTPPHSAKS KFGYGAKDVR SLSSRAVTHI RSVWKDLLED TETPISTTIM
          MKC1A KLTPPHSARS KFGYGAKDVR SLSSKAVNHI RSVWKDLLED TETPIDTTIM
          NDM59 QLTPPHSARS KYGFGAKEVR SLSGRAVNHI KSVWKDLLED SQTPIPTTIM
           NZLI ALVPPHSARS KFGYSAKDVR SLSSRAINQI RSVWEDLLED TTTPIPTTIM
            SA13 GLTPPHSARS KYGYGAKEVR SLDKKALNHI KGVWQDLLDD SDTPLPTTIM
          Th580 SLTPPHSARS RYGYGARDVR SHTSKAVKHI DSVWEDLLED NATPIPTTIM
 Type_3a_CB ALVPPHSARS KFGYSAKDVR SLSSRAINQI RSVWEDLLED TTTPIPTTIM
       TypeV_D ALVPPHSARS KFGYSAKDVR SLSSRAIDQI RSVWEDLLED TTTPIPTTIM
          VN004 DLTPPHSARS KFGYGAKDVR SHASKAINHI NSVWADLLED TQTPIPTTIM
          VN235 ALTPPHSARS KFGYGAKEVR GLASKAVNHI NSVWEDLLED NSTPIPTTIM
          VN405 SLTPPHSARS KFGYGAKDVR SHTSKAINHI NSVWEDLLED NQTPIPTTIM
          BEBE1 AKNEVFCVDP TKGGKKPARL IVYPDLGVRV CEKMALYDIT QKLPVAVMGQ
        D89815 AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGS
 ED43type_4 AKNEVFAVNP AKGGRKPARL IVYPDLGSRV CEKRALHDVI KKTALAVMGA
          HC_C2 AKNEVFCVQP EKGGRKPARL İVFPDLGVRV CEKMALYDVV STLPQAVMGS
          HC G9 AKNEVFCVKP EKGGRKPARL IVYPDLGVRV CEKRALYDVV KQLPIAVMGT
    HCU16326 AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGS
   HCV_H_CMR AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV SKLPLAVMGS
        HCV_J1 AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV SKLPPAVMGS
    HCV_J483 AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGS
       HCV_J8 AKNEVFCIDP TKGGKKPARL IVYPDLGVRV CEKMALYDIA QKLPKAIMGP
HCV_JK1 AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGS HCV_L2 AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGS HCV_K1_R1 AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGS HCV_K1_R2 AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGS HCV_K1_S1 AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGS HCV_K1_S2 AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGS HCV_L2 AKSEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGS HCV_L2 AKSEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGS HCV12083 AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGS HCV1480 AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGS HCVPOLYP AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGS HCVPOLYP AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGP HCVPOLYP AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGP HPCCGAA AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGP HPCCGAA AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGP HPCCGAA AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGP STLPQAVMGS HPCGENANTI AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGS STLPQAVMGS EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQAVMGS STLPQA
      HCV_JK1 AKNEVFCVQP EKGGRKPARL IVFPELGVRV CEKMALYDVV STLPQAVMGS
      HPCHUMR AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQVVMGS
        HPCJ AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGS
HPCJCG AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGP
    HPCJK046 AKNEVFCVDV SKGGRKPARL IVYPDLSVRV CEKRALYDVT RKLPVAVMGA
    HPCJK049 AKNEVFAVAP HKGGRKPARL IVYPDLGVRI CEKRALYDVI QKLPSAIMGS
HPCJTA AKSEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGS
        HPCJTB AKSEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGS
       HPCK3A AKNEVFCVDP AKGGRKAARL IVYPDLGVRV CEKRALYDVI QRLSIETMGS
  HPCPLYPRE AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV TKLPLAVMGS
     HPCPOLP AKNEVFCVDP TKGGKKAARL IVYPDLGVRV CEKMALYDIT QKLPQAVMGA
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HPCPP AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGS
     HPCUNKCD AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGS
           MKC1A AKNEVFCVQP EKGGRKPARL IVFPDLGVRV CEKMALYDVV STLPQAVMGS
           NDM59 AKNEVFCVDP AKGGKKAARL IVYPDLGVRV CEKMALYDVT QKLPQAVMGA
            NZLI AKNEVFCVDP AKGGRKPARL IVYPDLGVRV CEKRALYDVI QKLSIETMGP
             SA13 AKNEVFAVEP SKGGKKPARL IVYPDLGVRV CEKRALYDIA QKLPTALMGP
           Th580 AKNEVFCVDP SKGGRKPARL IVYPDLSVRV CEKMALYDVT QKLPKTVMGS
 Type_3a_CB AKNEVFCVDP AKGGRKPARL IVYPDLGVRV CEKRALYDVI QKLAIETIGS
       TypeV_D AKNEVFCVDP ARGGRKRARL IVYPDLGVRV CEKRVLYDVI QKLSIETMGT
           VN004 AKNEVFCVDA SKGGRKSARL IVYPDLGVRV CEKRALFDVT RKLPTAIMGD
           VN235 AKNEVFCVDA QKGGRKPARL IVYPDLGVRV CEKRALYDVT QKLPIAVMGA
           VN405 AKNEVFCADV SKGGRKPARL IVYPDLGVRV CEKRALYDVT RKLPTAIMGD
                        2651
          BEBE1 SYGFQYSPAQ RVDFLLQAWK EKKTPMGFSY DTRCFDSTVT ERDIRTEESI
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D89815	YQCCDLAPEA	RQAIRSLTER	LYIGGPMTNS	KGQNCGYRRC	RASGVLTTSC
ED43type_4	YQCCDLEPEA	RKVITALTDR	LYVGGPMHNS	KGDLCGYRRC	RATGVYTTSF
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HC_G9	YQSCDLVPEA	RAAIRSLTER	LYIGGPLTNS	KGONCGYRRC	RASGVLTTSC
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	2751				2800
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HPCJTA	PAASOLDLSS	WFVAGYSGGD	TVUCT.CDARS	KUDDIGHTF	TVGVGIFLLP
HPCJTB	PAASOLDLSS	WFVAGYSGGD	TANGUGUER	RWFMWCLLLLL	SVGVGIYLLP
нрскза	PAAGOLDISS	WFTVGVGGND	TYUCUCDADE	KMRMMCTTTT	SVGVGIYLLP
HPCPLYPRE	AAAGOLDLSG	WFTAGYSGGD	TYPOSTARI	RIPPICHPPP	TVGVGIFLLP
HPCPOLP	DEVELTIVITES	WFTVGAGGGD	TYHOUGHARP	RMIMECUPPP	AAGVGIYLLP
HPCPP	PEASOLDISG	WFVAGYSGGD	TVUCLCDARD	KULLINGTIPP	FVGVGLFLLP
HPCUNKCD	PAASRIDISC	MEMAGAGGD	TYUCLORARD	KMEMMCPPPP	SVGVGIYLLP
MKC1A	DEVENTING	WFVAGYSGGD	TIMSUSKARP	KMEMTCTTTT	SVGVGIYLLP
NDM59	DEVLT-LTGG	WFVAGYSGGD	TYTOUGHARP	KWEMWCLLLL	SVGVGIYLLP
NZLI	~ TUTOTOD	WFTVGAGGGD	THISVSRARP	KULLLSLLLL	LVGVGLFLLP
SA13	ENTITUDE DE CO	WFTVGVGGND	LYHSVSRART	KHLLLCLLLL	TVGVGIFLLP
Th580	WANTED SS	WFTVGAGGGD	1 YHSMSRARP	RCILLCLLLL	TVGVGIFLLP
	WWWDATDT2G	WFVAGYDGGD	1 YHSVSRARP	RLLLLGLLLL	TVGVGIFLLP
Type_3a_CB	PARCOT PT C-	WFTVGVGGND	LYHSVSRART	RYLLLCLLLL	TVGVGIFLLP
TypeV_D	PATGQLDLSS	WFTVGVGGND	IYHSVSRART	RYLLLCLLLL	TVGVGIFLLP
VN004	RGASALDLSG	WFTSGYGGGD	VYHSASRARP	RFLLLCLLLL	SVGVGIFLLP
VN235	KGWWMTDF2G	WFVSGGSGGD	1FHSVSRARP	RNLLLCLLLL	TVGVGIFLLP

#### VN405 PDAARLDLSG WFISGFSGGD IYHSVSRARP RIFLLCLLLL SVGVGIFLLP

3051 BEBE1 AR D89815 NR ED43type_4 AR HC_C2 NR HC G9 NR HCU16326 NR HCV_H_CMR NR HCV_J1 NR HCV J483 NR HCV J8 AR HCV JK1 NR HCV_JS NR HCV K1_R1 NR HCV_K1_R2 NR HCV_K1_R3 NR HCV_K1_S1 NR HCV_K1_S2 NR HCV K1 S3 NR HCV_L2 NR HCV N N. HCV12083 AR HCV1480 AR HCVPOLYP NR HD_1 NR HPCCGAA NR HPCFG AR HPCGENANTI NR HPCGENOM NR HPCHUMR NR HPCJ NR HPCJCG NR HPCJK046 PR HPCJK049 AR HPCJTA NR HPCJTB NR HPCK3A AR HPCPLYPRE NR HPCPOLP AR HPCPP NR HPCUNKCD NR MKC1A NR NDM59 AR NZLI AR SA13 AR Th580 AR Type_3a_CB AR TypeV_D AR VN004 AR VN235 AR

VN405 AR

#### Table 23. HIV Fusion Construct

EP-HIY-1090
MGMQVQIQBLFLILLWVFGSRGKLVGKLNWAGAAILKEFYHGVNAACFKV8FEPIKIPIHYCAPA
KAKFVAAWTLKAAAKABPVRPQVPLGAAKLTFLCVTLGAAAVLABAMSQVKVYLAWVPAHKG
AAAAIFQSSMTKKTTLFCASDAKNIPYNFQSQGVVKHPVHAGPIANVTVYYGVPVWKKAAAQMA
VFIINFKNAAAYFLASLRSLFNLTFGWCFKLNRILQQLLFINAKIQNFRVYYRKAAVTIKIGGQLKK
VPLQLPPLKAMTNNPPIPY

Table 24. HBV GCR-3697 Fusion Construct

GCR-3697	Polynucleotide
	x orynacieotiae
SEQ ID	
NO:	1 Start
	ATGGGCATGCAGATCCAGAGCCTGTTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT
1	CTGTCCCTGGGCATCCACCTGAACGCCGCTGCAAAGTACAACGTCGCTGCTGCTGCTGCTGCTGCTCCCTGGCTGCTCAACGCCGCTGCCCTCCAACGAACG
	AAGCAGCCTGGTTGGTCGACTTCACCCACCTTCACCCACC
	CAACGCCGCTGCCACACCCTGTGGAAGGCTGGCATCCTGTACAAGAAAGCCTGGATGTTTCTGCT GACCCAGCCTGTACAAGGCATATCCAGCCCTGATGCCCCTTTACAAGAAAGCCTGGATGATGTGGTACTGGG
	GCCTCCTGGTGCCCTTCGTGAACGCCCTCCCCCTGTACGCCTGCATCGGAGCTGCCGCATGGCTGA
	TGCCCAGCGACTTCTTTCCCAGCGTGAAACCCCCAGCGCCGAGTACCTGGTGAGCTTCGGAGTCTGGAACC
	CGCAGCCGATCTCCTGGACACCGCTAGCGCCCTGTACAACCCGCCCCCGACTTCTTTCCCAGCGTGAAGGC GGCCGCAGCCAGCGCCATCTGCAGCGTGGTCAGAACCTGGAAGCTTCGCCGAAGTTCGCCGTGCCCAACCTGAA
	CGCCGCCGCAAAGTTCGTGGCCGCCTGAACCCTCAAAGCGTGCCCCCCGATGTGAGCGCCGCTTTCTACAA
]	GAGACCACAGTGGTCAGACGGAAGCACCCCGCCGCAGACTGAACGCCGCTGCCAGCACCCTGCCC
	GTGCCTCAGACGGTTCATCATCAACGCTTCCTTCTGTGGCCCCACCTGCTGAAGGCCCCAGCCCGGTGGAT GGTCCTGGGAGTGAACGCCCTTCTGTTCCACCACCCCTACAAGGCCCCTACATGGATGACGT
	AGTGACCGGAGGCGTGTTCAAGGCTGCACCGCTGACCTTCAAGCCGCTGCCACACCCGCAAG
	CAGACGGCCCCGGCCCCGGACTGTGCCACGCGCTGTTGCGCACGCCCCAAGCGCCCTGAATCCCG
	GGACCCGGCAGACACTACCTGCATACCCTGTGAAGGCAGGATGCCACAACCGGATGGGGCCTTGCACAAAGGCCCCGGCCCTGGACC
	CGAATCCAGGCTGGTGGTAGACTTTAGCCACTTTTTTTTT
	CGTCGGCCTCAGCCCCACCGTCGGACCTGGCCCAGCTGGCCCAGGACTGGTGCCCTTCGTGCAGTGGTT
	CAGAAAGATCGGACCAGGCCCCGGCTCCAGCAACCTGCCCGGCCTGGACCAGCCTATCATTCTGGGCTT GACCCGGCCCTGGCCTGAGAGCCTGACCACCTGCTCACCAGCCTGGACGTCAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCCTAGCAGCAGCCTAGCCTAGCCTAGCAGCAGCCTAGCAGCAGCCTAGCAGCAGCAGCCTAGCAGAAGCAGCAGCAGCCTAGCAGCCTAGCAGAAGCAGAAGCAGAAGAAGAAGAAGAAGAAGAAGAA
:	GGCGCAGGCTTCTTTCTGCTCACCAGCATCCTCAGCAGCCAGC
	CCTCTGACTGTGAACGAGAACGGAGACTGAACGTGAACGCCCATCGGCCCAGGACCCGGCGTCGGA
	GCTCCCTGTGAACAGACCTATCGACTGGGGCCCCGGACCCGGACCAGCCAACAGTGCTTCAGGAA GCTTCGTGTACGTCCCTGGACCCGGCCCTGCAAGCAACCGCCAACTGGATTCTGAGAGGCACCA
1	TGTGCGGATAG
_	↓ Stop 2232
GCR-3697	Polypeptide
SEQ ID	
NO:	1
110	MGMQVQIQSLFLLLLWVPGSRGFLLSLGIHLNAAAKYTSFPWLLNAAARFSWLSLLVPFNAAFPHCLAFSYMKA ALVVDFSQFSRGAILLCLIFLLNAAAHTI WKAGII YKKA HAAA YYBAYAAYAA
	ALVVDFSQFSRGAILLICLIFLLNAAAHTLWKAGILYKKAWMWYWGPSLYKAYPALMPLYACIGAAAWLSLL VPFVNAAAGFLLTRILTINAAAPIPSSWAFKAAAFYLSCAUDU DOODDOODDOODDOODDOODDOODDOODDOODDOOD
	TASALYNSWPKFAVPNI KAAASAICSWIPPVI SI DVSA AWALPSDFFPSVKAAAFLPSDFFPSVKAAADLLD
	WFHISCLTFKAAATPARVTGGVFKAAAITEGPPTVI TYVO AWCLARFIINASFCGSPYKAAYMDDVVLGVNAL
	RGNGPGPGPFLLAGFTSAICSVVGPGPGLAFTVONUTION OF THIT ALROALL CWGELM TLAGPGPGESRLVVDFSOFS
	DVSAAFGPGPGLOSI TNI I SSNI SWI GPGPGA CHELLUDI TVOG GPGLHLYSHPILGFRKIGPGPGSSNLSWLSL
	GPLTVNEKRRLKLIGPGPGKQCFRKLPVNRPIDWGPGPGAANWILRGTSFVYVPGPGPGKQAFTFSPTYKAFLCG
	744
•	

Table 25. HBV AOSIb2 Fusion Construct

HBV AOSIb2	Polynucleotide
SEQ ID NO:	1 Start  ↑  ATGGGAATGCAGGTGCAGATCCAGAGCCTGTTTCTGCTCCTCTGTGGGTGCCCGGGTCCAGAGGACACAC CCTGTGGAAGGCCGGAATCCTGTATAAGGCCAAGTTCGTGGCTGCCTGGACCCTGAAGGCTGCCGCTTTCCT GCCTAGCGATTTCTTTCCTAGCGTGAACTTCCTGCTGTCCCTGGGAATCCACCTGTATATGGATGACGTGGTG CTGGGAGTGGGACTGTCCAGGTACGTGGCTAGGCTGTTCCTGCTGACCAGAATCCTGACCATCTCCACCCTG CCAGAGACCACCGTGGTGAGGAGGCAGGCCTTCACCTTTAAGCCCTACCTA
HBV AOSIb2	Polypeptide
SEQ ID NO:	1  ↑  MGMQVQIQSLFLLLLWVPGSRGHTLWKAGILYKAKFVAAWTLKAAAFLPSDFFPSVNFLLSLGIHLYMDDVVL GVGLSRYVARLFLLTRILTISTLPETTVVRRQAFTFSPTYKGAAAWLSLLVPFVNIPIPSSWAFKTPARVTGGVFKV GNFTGLYNLPSDFFPSVKTLWKAGILYKNVSIPWTHKGAALVVDFSQFSRNSAICSVVRRALMPLYACI  \$\frac{1}{2}\$

### Table 26. HCV Fusion Construct

MGMQVQIQSLFLLLLWVPGSRGRLGVRATRKKAAAKTSERSOPRNLPGCSFSIFNDLMGYIPLVK YLLPRGPRLNTLCGFADLMGYRMYVGGVEHRKLLFNILGGWVKAAALADGGCSGGAYRLIVFP DLGVEFWAKHMWNFIGVAGALVAFKKQLFTFSPRRNGYLVAYQATVAAALLFLLLADALIFCHS KKKYLVTRHADVLGFGAYMSKCTCGSSDLYHMWNFISGIFWAKHMWNFKKAAAVLVGGVLAA AFLLLADARVLSAFSLHSYILAGYGAGVWMNRLIAFANAAAKFVAAWTLKAAA*

#### Table 27. Plasmodium falciparum Fusion Construct

MÖMQVQIQSLFILLLWVFGSRGFMKAVCVEVNVTCGNGIQVRKGLIMVLEFLNAALFHIFDGDN EIKAALLACAGLAYKKSFLFVBALFNAAPSDGKCNLYKAAQINFKSLLRNLPSENERGYKAAGVS ENIFLKNAAAYFILVNLLIKAAAILSVSSFLFVNTPYAGEPAPFKAAAKYKLATSVLKAAVFLIFFDL FLNYYIPHQSSLKAAGLLGNVSTVGAVLLGGVGLVLNLACAGLAYKKAKFIKSLFHIFKAAFYFIL VNLLKAFLIFFDLFLVKALFFIIFNKNYYGKQENWYSLKFVBALFQBYNAAAKFVAAWTLKAAAK ILSVFFLANAVLAGLLGNVNFQDEENIGIYKAAALYISFYFIKAFILVNLLIFHNAALPYGRTNLKAA HVLSHNSYEKNAAAKYLVIVFLI

TCAGGTGAGAAAGGGACTCATCATGGTACTCAGCTTTCGAACGCAGCCTGTTCCACATCTT TGACGGAGACAATGAAATCAAAGCCGCATTGCTCGCCTGTGCCGGACTAGCCTATAAAAAGA GTTTOCTTTCGTTGAAGCACTATTTAACGCAGCACCCAGTGACGGTAAATGCAACCTATATA AAGCAGCTCAGACTAATITCAAAAGCCTGTTAAGAAATCTGCCCTCAGAGAATGAAAGGGGT TACAAAGCCGCCGGCGTGTCAAAAATTTTTTATACTC CATATGCGGGGGAGCCGGCTCCTTTCAAGGCTGCAGCAAAATACAAGCTTGCCACATCAGTAT AGTCTTAAAGCAGCCGGGCTACTGGGGAACGTCTCTACTGGGGGGCCGTCTTACTTGGAGGA GTTGGCCTCGTGTGAACCTCGCGTGCGCAGGTCTGGCCTACAAAAAAGCGAAATTCATCAAG TCTCTGITCCACATTTTAAAGCCGCATTCTATFTCATACTAGTGAACCTTCTCAAAGCTTTCCT GATCTTCTTCGATCTATTCCTCGTAAAAGCGCTATTCTTCATTATCTTTAACAAAAATTATTAC GGCAAGCAAGAAATTGGTACTCACTCAAGTTTGTAGAAGCTCTGTTCCAGGAATACAACGCC GCTGCTAAATTCGTTGCAGCTTGGACCCTGAAAGCAGCTGCAAAGATCCTATCGGTCTTCTTTC TOGCTAATGCCGTATTAGCAGGACTTCTAGGCAACGTGAACTTTCAAGACGAAGAGAATATAG GCATCTACAAAGCCGCAGCACTGTACATTCATTCTACTTCATCAAGGCCTTCATACTGGTCAA CCTTCTGATATTTCATAATGCAGCACTGCCATATGGGAGA'ACCAACTTGAAAGCGGCCCACGT GTTGAGCCACAACTCCTACGAGAAGAACGCCGCCGCGAAATATCTCGTCATTGTCTTCCTGAT TTGA ·

## Table 28. Mycobacterium tuberculosis Fusion Construct

TEII MQVQIQSLFLLLLWVPGSRGRMSRVTTFTVKALVLLMLPVVNLMIGTAAAVVKALVLLMLPVGA GLMTAVYLVGAAAMALIRLPVKRMFAANLGVNSLYFGGICVGRLPLVLPAVNAAAAKFVAAWT LKAAAKAAARLMIGTAAAGFVVALIPLVNAMTYAAPLFVGAAAAMALLRLPLV

ATGCAGTGCAGATCCAGAGCCTGTTTCTGCTCCTCTGTGGTIGCCCGGATCCAGAGGAAGG
ATGAGCAGAGTGACCACATTCACTGTCAAGGCCTGTGTGTCCTCGTGATGTCCCGTCGTGAAC
CTGATGATCGGCACCGCTGCAGCCGTCGTQAAAGCTCTCCTGCTCATGCTCCTGTGGGA
GCAGGCTGATGACAGCCGTGTACCTGGTCGGCGCTGCAGCCATGGCCCTCCTGCGGCTGCA
GTGAAGCGCATGTTTGCTGCAAATCTGGGAGTCAACTCCCTCTATTTCGGGGGCATTTGCGTG
GGAAGGCTGCCCTGGTGCTGCTGCAAGACTGATGATCGGGACCGCCGCTGCCGGCTT
CGTGGTCGCCCTGATTCCCCTGGTGAACGCCATGACATACGCAGCTCCTCTGTTTTGTGGGAGC
CGCTGCAGCCATGGCCATGACATACGCAGCTCCTCTGTTTTGTGGGAGC
CGCTGCAGCCATGGCCATGCGCGCTGCACATGCATGCAGCCCCTCTCTTTTTTTGGGAGC
CGCTGCAGCCATGGCCATGCCACTGTTTGA

# Table 29. Hepatitis B Virus Core Protein (SEQ ID NO: _)

MQLFHLCLIISCSCPTVQASKLCLGWLWGMDIDPYKEFGATVELLSFLPSDFFPSVRD LLDTASALYREALESPEHCSPHHTALRQAILCWGELMTLATWVGVNLEDPASRDLVV SYVNTNMGLKFRQLLWFHISCLTFGRETVIEYLVSFGVWIRTPPAYRPPNAPILSTLPE TTVVRRRGRSPRRRTPSPRRRRSQSPRRRRSQSRESQC

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